# FREE DIGITAL MAGAZINE

What Digital Camera
Techniques
SPRING 2006
110 Pages of Essential Photoshop Tutorials
From Beginner to Advanced
PLUS 100 Tips & Tricks
Retouching The Teeth
Retouching The Eyes
Discover Beauty Retouching
Retouch your images like a professional
SIMPLY LOAD THE CD ONTO YOUR PC TO VIEW THE MAGAZINE

YYe Youtube Presents, Tutorials Support

# FREE DIGITAL MAGAZINE

# What Digital Camera Techniques

SPRING 2006

## 110 Pages of Essential Photoshop Tutorials

From Beginner to Advanced

## PLUS 100 Tips & Tricks

## Discover Beauty Retouching

Retouch your images like a professional

SIMPLY LOAD THE CD ONTO YOUR PC TO VIEW THE MAGAZINE

YYe Youtube Presents, The Lion Support

THE UK'S *ORIGINAL* AND BEST DIGITAL PHOTOGRAPHY MAGAZINE

# WHAT DIGITAL CAMERA

May 2006 Issue No.109 £4.20 (UK)

GREAT VALUE
ONLY £4.20

WHAT TO BUY...
AND HOW TO USE IT

## Take That!
How to shoot images like this, step by step

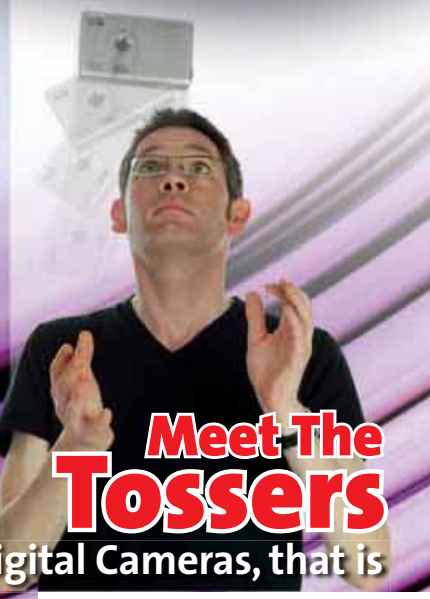
THE BIG TEST

## Canon EOS 30D
More than a makeover?

THE GROUP TEST

## All-in-ones
Six multifunctionals under £200 rated

## Go Wideangle
John Freeman shows how to make the most of your wideangle lens



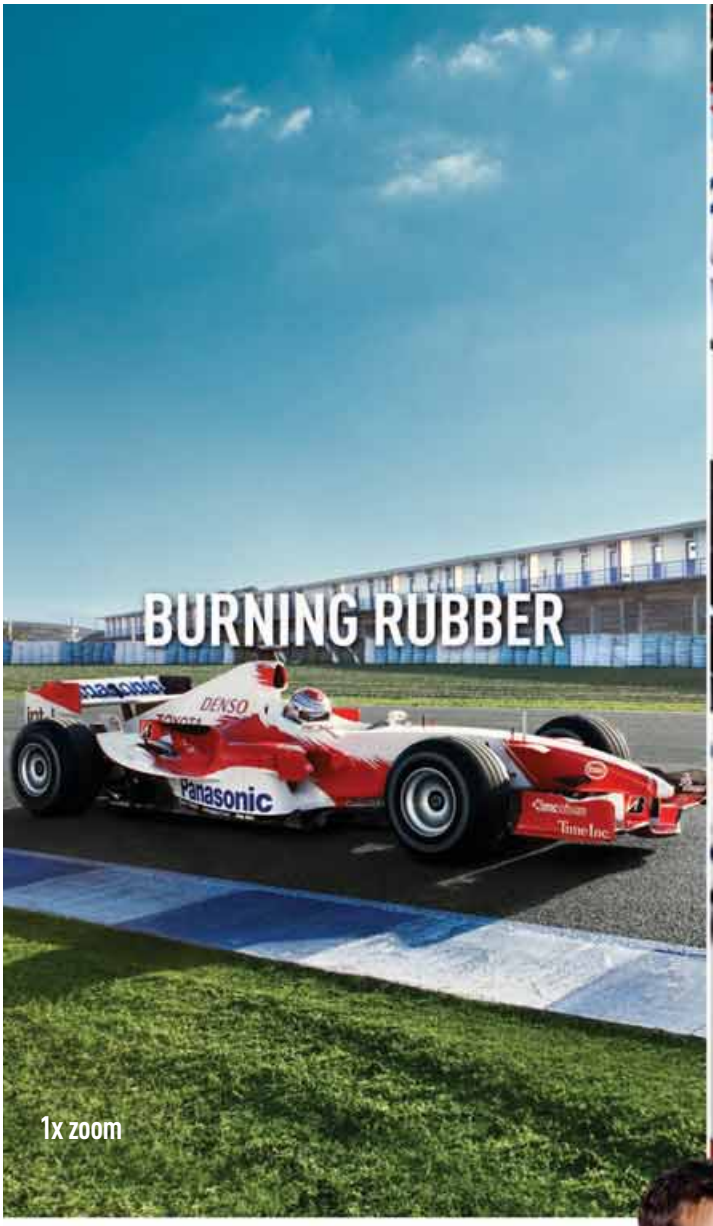
## Meet The Tossers
...of Digital Cameras, that is

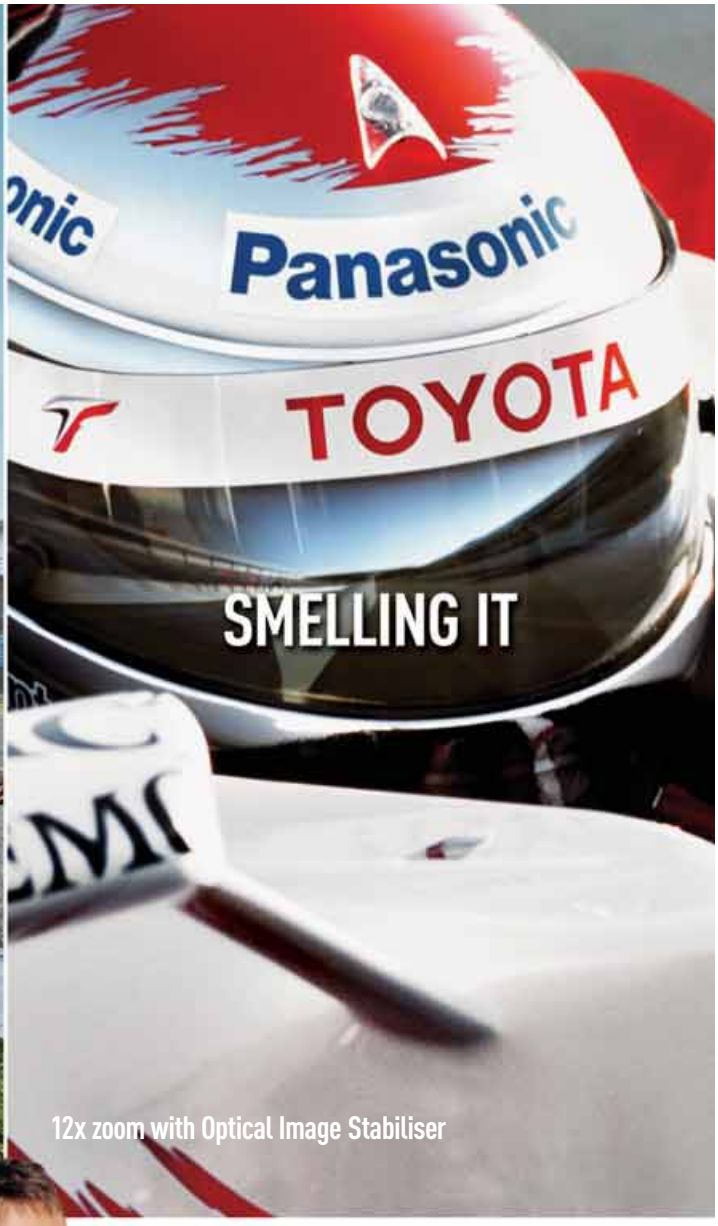
YYePG Proudly Presents, Thx for Support

**PLUS:** Over 200 Cameras and Accessories in our 12 page Buying Guide

AOL Keyword: What Digital Camera

9 771366 532078 05




## PANASONIC LUMIX DMC-FZ7
## 12x ZOOM DIGITAL CAMERA

The FZ7 gets you closer to the action than ever before, with its amazing 12x optical zoom. The Optical Image Stabiliser compensates for camera shake and so minimises motion blur, ideal for getting that once in a lifetime shot.

The Leica DC VARIO-ELMARIT lens* and 6 Mega pixels combine to capture every last detail, whilst the manual control option allows you to develop your creativity.

The compact FZ7 is the perfect camera for those who get a thrill out of capturing images with a difference.

To experience the Lumix difference visit **www.panasonic.co.uk/lumix** or call: **08705 357 357**

Also available in black

LUMIX

THE LUMIX DIFFERENCE

**Panasonic**
**ideas for life**

*Leica is a registered trademark of Leica Microsystems IR GmbH. ELMARIT is a licensed trademark of Leica Camera AG.

YYePG Proudly Presents, Thx for Support

# THE TEAM

## Editorial staff

**Nigel Atherton**
**EDITOR**
Studied photography at Plymouth CAD and University of Westminster, over 10 years as pro photographer, has been a photographic journalist since 1994

**Jamie Harrison**
**TECHNICAL EDITOR**
Pro photographer and printer for 16 years, Jamie has used Photoshop since 1997 and became a journalist in 2000

**Natalie Hitchins**
**NEWS EDITOR**
A digital arts journalist, Natalie has been a writer, contributor and editor on a wide range of digital creativity titles

**Jacky Porter**
**PRODUCTION EDITOR**
A keen amateur photographer, Jacky has been a Production Editor for more than six years on various publications

**Steve Crabb**
**ART & TUTORIALS EDITOR**
20 years' design & photography experience, client list includes The FA & Body Shop. Author and magazine contributor

## Contributors

**Philip Andrews**
**SHOOTING & EDITING SKILLS**
Senior Lecturer, Photography & Digital Imaging. Author of many books, Adobe alpha tester

**Joel Lacey**
**TESTS, TECHNICAL FEATURES**
Technical photography writer and editor for over 20 years, author of four books

**Ian Burley**
**TESTS, TECHNICAL FEATURES**
Computer technology writer since 1984 for national/specialist press, runs www.dp-now.co.uk

**Martin Evening**
**PHOTO CRITIQUE, TESTS**
Photographer, author, Photoshop Alpha tester, official Adobe Roadshow speaker and lecturer

**John Freeman**
**TECHNICAL FEATURES**
A top pro photographer, has written more than a dozen glossy photo technique books

**Jon Tarrant**
**TECHNICAL FEATURES**
Former professional photographer turned physics teacher, Jon Tarrant is also the author of seven books on photography, including Digital Camera Techniques

WHAT DIGITAL CAMERA

**Contact us at:** What Digital Camera, King's Reach Tower, Stamford Street, London SE1 9LS Tel: 020 7261 5323 Fax: 020 7261 5398, wdc@ipcmedia.com

# WELCOME...

**...to the May issue of What Digital Camera, and what a barnstormer we have for you this month. First, we present for your reading pleasure a full test of Canon's new EOS 30D. And if just one SLR isn't enough for you we've tested Samsung's debut model, the GX-1L, too. We've also group tested a selection of all-in-ones and CompactFlash cards. On the technique front we show you how to shoot terrific bug close-ups, and John Freeman shares his tips on making the most of wideangle lenses.**

Finally, as you can see from our group picture below we've just won (another) award. I won't bore you with all the gory details but basically it's for technical innovation and our trailblazing use of new publishing technologies. We beat more than 80 other IPC titles, so well done especially to Steve and Jacky, without whose tireless production work behind the scenes you wouldn't be reading this issue, and we wouldn't be stroking our shiny new perspex thing.

**Nigel Atherton**
nigel_atherton@ipcmedia.com

# What to *Buy*

## 20 Canon EOS 30D *The Big Test*

**COVER FEATURE** Does the replacement for the mighty 20D offer anything new?

## 52 All-in-one devices for sub £200 *Group Test*

**COVER FEATURE** We look at the latest machines that scan, copy and print

## camera *tests*


**20 Canon** *EOS 30D*
The replacement for the Canon 20D

**26 Samsung** *GX-IL*
A new name in DSLRs

**31 Olympus** *mju 810*
The latest weatherproof model

**33 Fujifilm** *V10*
A camera for gamers

**35 Nikon** *S5*
Nikon's newest slim and shiny compact

**37 Panasonic** *FX01*
Tiny camera with a 28mm lens

**39 Ricoh** *R4*
A 28-200mm zoom compact

## accessory *tests*


**45 HP** *B9180*
Vincent Oliver casts his eye over an A3 printer offering 300 years of print life

**46 Sony Ericsson** *W900i*
Mobile phone with 2MP and MP3

**48 Epson** *V700*
A professional-quality scanner for prints and film

**49 Compact Flash** *Roundup*
High-speed cards against the clock

46 **Delkin** Archival Gold Disks
47 **Lowepro** CompuDayPack
48 **Hoodman** Flip-up LCD cover
48 **SilverOxide** Landscape filters
50 **Books** •Window Seat: The Art of Digital Photography and Digital Thinking
• A Guide To Digital Photography DVD
• Really, Really, Really Easy Step by Step Digital Photography
• Photoshop CS2 RAW


YYePG Proudly Presents, Thx for Support

ON THE COVER

## 70 Using Wideangle *Lenses*

**COVER FEATURE** John Freeman shows you how to use wideangle lenses creatively to open up the world

# How to *Use it*

## WDC *techniques*

**14 Best Shot** *Selector*
Readers' stunning pictures

**65 5 Minute** *Tips*
A great Spitfire image and tips on how to take shots like it

**72 Take** *That!*
**COVER FEATURE** How you can shoot vivid nature close-ups

**76 Dream** *Machine*
Ways to speed up Photoshop for more-efficient editing

**80 Help** *File*
A problem shared is a problem solved... by the WDC team

**86 Evening** *Class*
Photoshop guru Martin Evening passes his verdict on your photos

**88 Crop** *Tool*
Learn how to use Photoshop's simplest but powerful tool

**90 Photoshop** *Project*
Four mini tutorials on toning to spice up your photos

YYePG Proudly Presents, Thx for Support

WHAT DIGITAL CAMERA

WHAT DIGITAL CAMERA on sale from 21st April 2006
May 2006 Issue No. 109

## At a *glance...*

06 **Monitor News** What's new this month
13 **Next Month** See what's coming soon
14 **Reader Gallery** Great photos fom readers
20 **Canon EOS 30D** Big test
26 **Samsung GX-1L** Camera review
31 **Olympus Mju 810** Camera review
33 **Fujifilm Finepix V10** Camera review
35 **Nikon Coolpix S5** Camera review
37 **Panasonic Lumix FX01** Camera review
39 **Ricoh Caplio R4** Camera review
40 **Camera Tossers** COVER FEATURE
43 **Win a holiday** LightScribe competition
45 **HP Photosmart B9180** Review
46 **Sony Ericsson W900i** Review
47 **Lowepro CompuDayPack** Review
48 **Epson Perfection V700** Review
48 **Hoodman Flip-Up LCD Cap** Review
48 **SilverOxide Landscape Filters** Review
49 **High Speed Compact Flash** Round Up
50 **Book reviews** Our pick of the latest books
51 **Good Service Awards** Vote now and win
52 **All-In-One Devices** Group Test
60 **Letters** Your views
62 **Subscription** Special offer
65 **Five-minute Technique**
66 **John Freeman** Using wideangle lenses
72 **Take That!** How to shoot nature close-ups
76 **Photoshop** Build your Dream Machine
80 **Help File** WDC answers your queries
85 **Competition** Win a PhotoPlus editing pack
86 **Evening Class** Your images assessed
88 **Tools of the trade** The Crop tool
90 **Photoshop Tutorial** Toning your images
94 **Home Study Course**
122 **Buying Guide** Cameras
128 **Word on the Street** Hot deals from dealers
130 **Buying Guide** Software, lenses, flash
132 **Buying Guide** Scanners, printers, paper
138 **And Finally...** What's on the WDC web

**Publishing Director** Angela O'Farrell
**Associate Publisher** Gareth Beesley
**Head of Marketing** Lindsay Greatbatch
**Marketing Manager** Mary De Cinque
**Group Creative Director** Brett Lewis
**Product Photography** Alan McFaden
**ADVERTISING TEAM Head of Sales**
Chris Templeman 020 7261 5634
**Advertising Manager**
Clare Delaney 020 7261 6848
**Key account manager**
Dave Stone 020 7261 6865
**Display Sales Executives**
Rob Selvey, Mariliz Lagou
**Display Ad Production**
John Jones 020 7261 5447
**Copy Chaser** Kumu Vithlani
**Classified Sales Executives**
Julia Spencer, Philip Burburry
020 7261 2929
**Midlands Office** Robert Selvey, 51 Lingfield Drive, Great Wyrley, Walsall, West Midlands, WS6 6LS, Tel: 01922 412720
**Inserts** Innovator 020 7261 7710
**Repro** by Camden Town Typesetters Ltd (020 8523 6700)
**Printed** by Benham Goodhead Ltd
**Covers** printed by B.R. Hubbard Ltd
**Distributed** by Marketforce, King's Reach Tower, Stamford Street, London SE1 9LS

**What Digital Camera™** is a Focus Network title, published by IPC Country & Leisure Media, part of IPC Media Ltd, King's Reach Tower, Stamford Street, London SE1 9LS
**Submissions** are welcomed, but should be in digital format to the address above or by email to wdc@ipcmedia.com
*IPCMedia reserves the right to use any submissions sent to What Digital Camera in any format or medium, including electronic.*
**SUBSCRIPTIONS** One year rates (12 issues): UK £40.80; Europe £47.50; North America £53.00; Central & South America, Middle East, Far East, Australia, Africa & Asia £58.00 (all airmail).
Check the subs page on our website *www.whatdigitalcamera.com* for our latest offers. Enquiries: email ipcsubs@qss-uk.com or telephone +44 (0)1444 475675
**BACK ISSUES** Each £4.50 from John Denton Services, Unit 1, A1 Parkway, South Gate Way, Orton South Gate, Peterborough PE2 6YN. Tel: 01733 370800

**What Digital Camera™** is a trademark of IPC Media Ltd
© 2006 IPC Media Ltd
ISSN No. 1366-5324

# MONITOR news

Get *today's* digital photo news at **www.whatdigitalcamera.com**

## CAMERA NEWS

# Digital *Duo*

### Sanyo adds high-definition technology to its latest Xacti releases

**Sanyo is boosting its successful range of Xacti digital stills and video cameras with a digital duo of new devices.**

Unveiling the new arrivals at its spring trade-show, Sanyo introduced its premier release, the new **Xacti C6**, as the 'the world's smallest, thinnest and lightest solid state still and moving image camera of its kind.'

Following in the footsteps of the recently released C5 model, this latest entry to the Xacti line up not only boasts an enhanced 6-megapixel sensor, but also 30fps MPEG4 video recording, a large 2-inch LCD screen and a probing 5x optical zoom lens. The distinctive camera is set in the same mould as its Xacti contemporaries, and makes use of a vertical 'gun' style handgrip that strikes a design balance between the needs of both video and stills photographers.

It also includes Sanyo's own Digital Image Stabiliser, which promises to provide correction for the camera handshake that can occur when shooting long lengths of video. The system aims to compensate effectively under any zoom setting for more natural and clear results.

Hot on the heels of the C6 comes the **VPC-HD1**, an ultra-compact High Definition video and stills camera. A newly developed 2.2inch OLED (Organic Light Emitting Diode) display has been incorporated into the HD1, making it not only the world's first high-definition solid state camcorder, but also the world's smallest and lightest camera capable of capturing both high definition video and 5-megapixel stills.

Claiming enhanced attention to detail in terms of both design and performance, Sanyo's latest launches aim to underline the direction in which the company hopes to go with its digital camera line-up. One of the company's most successful product lines, the Xacti range initially debuted in 2004 with the C1, and this was hotly followed up with the higher-specification C4 and C5 models.

Both the C6 and HD1 will become available in photographic stores later this month, and will retail at between £700 and £800 for the HD1 and around £500 for the C6. Full product details are available on the manufacturer's website at **www.sanyo.co.uk**

# Cashback From **Canon**

**There's never been a better time to invest in Canon's EOS 5D digital SLR. The manufacturer has announced that it is to offer £200 cashback to anyone purchasing the groundbreaking 5D up until 30 June 2006.**

The camera, which received a mammoth 91% review score in our December issue, usually retails between £1850 and £2500 on the high street. The offer can be redeemed by sending a completed application form, along with the barcode and purchase receipt, to the Canon EOS 5D Promotion Centre. A sticker on the box of the camera will direct consumers to a website that supplies full details of the cashback offer, including the promotion centre address, downloadable application form and the terms and conditions that apply to the offer.

Alternatively, readers can find out full details at **www.canon-europe.com/2006promotions** or by ringing 08705 143723.

YYePG Proudly Presents, Thx for Support

# Mamiya *Mia!*

**After months of speculation Mamiya has finally released availability details of its much anticipated medium format digital SLR. Originally announced at 2004's Photokina show, the 22-megapixel Mamiya ZD is now available through authorised Mamiya retailers, priced £7000 for a body-only package.**

Utilising a large Dalsa 48mm x 36mm CCD in conjunction with an ASIC processing engine, the **Mamiya ZD** is able to capture 35MB RAW files. These can then be saved as a RAW file or converted to JPEG on the fly.

Developed exclusively for the Mamiya ZD, the advanced ASIC processor optimises image data from the CCD in real time. The ASIC engine also promises to provide a more accurate white balance facility and utilises power-saving technologies to prolong the camera's battery life.

In addition the ZD features a 1.8-inch LCD monitor for reviewing images, both Compact Flash and SD memory card slots and a lens mount that's compatible with 645AF lenses. Check out **www.mamiya.com** for full details.

# *New From* BenQ

**BenQ has expanded its digital camera line-up with the launch of new 5- and 6-megapixel compacts.**

First off the blocks comes the **BenQ DC E600**, which features a 6 million pixel CCD, 3x optical zoom and a large 2.5" LCD. Equipped with a so-called 3D-rotating lens, the E600 promises to zoom in and out at a faster speed. An additional Panoramic focus mode means that users no longer have to pre-focus in order to capture clear images.

For consumers with more humble pixel requirements, the 5MP **BenQ DC P500** promises a raft of features including a powerful 5x optical zoom, Pentax lens and macro shooting from just 3cm.

Complete specifications for both cameras are available at **www.benq.co.uk**

# Parrot *Photo Viewer*

**Looking for a fresh way to display your digital camera phone pictures? Then Bluetooth-specialist Parrot has got just the gadget for you.**

The manufacturer has developed an LCD photo viewer enabling users to display their mobile phone images through an electronic photo frame. The **Parrot Photo Viewer** consists of a leather or white leaded oak photo frame and a 74 x 54mm LCD screen. Priced £156.99, the frame will arrive in electronics and photographic retailers this summer. More information is available at www.parrot.biz

PrePG Proudly Presents / Thx for Support

# SnapShots

## FOND FAREWELL TO DIXONS

The Dixons brand is to disappear from the high street almost 70 years after its first store opened. The outlet's parent company, DSG International, announced earlier this month that it plans to rebrand its 190 high street branches Currys.digital. Currys, which was acquired by the Dixons group in 1984, will now have 550 stores in total while Dixons online and airport trading will continue.

## PENTAX-DA 21MM F3.2AL

Pentax has announced a new lens, the smc Pentax-DA 21mm f3.2AL Limited. This pancake-style model offers a viewing angle of 68°, or the 35mm equivalent of 32mm. The lens has a Pentax KAF mount and will hit stores this June. Pentax is yet to confirm a suggested retail price, but full details can be found at **www.pentax.co.uk**

## TETENAL TAKES OVER

Tetenal has announced that it is to take over the service and maintenance of Konica Minolta Minilabs, peripheral equipment, and chemical supply in the United Kingdom and Ireland. As previously reported, Konica Minolta recently announced that it is withdrawing entirely from the photographic market. Its digital SLR assets have already been snapped up by Sony.

## BAGS OF STYLE

Laptop case designer PORT has returned to its roots by unveiling a range of camera cases designed for digital enthusiasts. PORT camera cases are available in a trio of sizes, in cream, black or red. Starting at just £9.99, the range offers user-friendly features including adjustable shoulder and belt straps, robust metal fastenings and additional pockets. See **www.portdesigns.co.uk**

# Olympus *E-330 Kits*

**Olympus has confirmed that a range of kits featuring its E-330 digital SLR will become available in the UK later this year. Already on sale in the US, the six different kit packages represent customised, professional solutions for a wide range of photographic situations and diciplines.**

Coming in travel, medical, macro, nature, architectural and underwater flavours, the kits promise to open up new avenues for creative and qualitative digital SLR photography. Each provides users with enhanced power and versatility – building on the unique Live Preview capabilities of the E-330.

US packages presently include a Pro option which comprises the Olympus E-330 body, a ZUIKO DIGITAL 14-54mm 1:2.8-3.5 lens, FL-50 external flash unit and the protective SBC-1 E-System Bag Compact. A Pro travel option includes a similar range of kit and accessories, including a splashproof lens, compact camera bag and FL-36 external flash.

UK pricing and availability are yet to be confirmed by Olympus, but full details will be released on the manufacturer's website at www.olympus.co.uk

## New Cameras *at a Glance*

| CAMERA | PRICE | MP | LENS | LCD | SHUTTER | AVAILABILITY |
|---|---|---|---|---|---|---|
| Sanyo C6 | £500 | 6MP | 5x | 2in | 1/2 - 1/2000 | May |
| Sanyo VPD-HD1 | £700-800 | 5MP | 10x | 2.2in | 1/2 -1/2000 | May |
| BenQ DC E600 | £147 | 6MP | 3x | 2.5in | 1/2000 - 2 | May |
| BenQ DC E500 | tbc | 5MP | 5x | 2.5in | 1/2000 - 2 | May |
| Mamiya ZD | £7000 | 22MP | By lens | 1.8in | 1/4000 to 30 | April |

# FotoInsight *Freebie*

**FotoInsight.co.uk, the online print processing service, has launched its own digital photo-editing software. The Home Photo Service promises to resolve eight of the most common tasks associated with digital photography including cropping, flipping, redeye removal, image resizing and file conversion.**

In an effort to promote its new online photo printing service the software will be distributed free for the first three months from FotoInsight's website, **http://FotoInsight.co.uk/pro**.

In addition to basic editing functions, the application also enables users to put together slide shows, order physical prints, create collections and organise albums that can then be burned onto CD. User friendliness is key to the software, which is aimed at those new to image editing.

Speaking of the new software, Fotoinsight's director Klaas Brumann commented, 'Photographic memories must never fade. FotoInsight is proud to provide the software that will help to preserve memories in vivid colours.'

# See *The Light*

**There's good news for studio photographers on a budget this month as Paterson Photographic has started stocking Interfit's latest affordable lighting line-up.**

Featuring flash, tungsten and halogen models, the new arrivals aim to offer enhanced performance at an accessible price point.

Kicking off the range is the EXD 200, a digitally compatible daylight flash, with 5v sync voltage and a guide number of 45. The new 300W Venus 300 offers similar specification as the EXD 200, along with a rubberised casing for protection on the move.

Tungsten fans will no doubt be pleased to meet the Stellar Tungsten range, which offer a 3200K-colour temperature and an S type bayonet.

If halogen is your preferred lighting system then the Stellar Halogen 1000 and 1300 models may just be the lighting solution you've been looking for. Featuring 1000W or 1300W of power, the lights have robust aluminium casing, fan cooling and S type bayonets.

Prices for a single lamp start at £62.99 and full details are available at **www.patersonphotographic.co.uk**

YYePG Proudly Presents. Thx for Support

**Looking to bag a bargain?** *Turn to Word on the Street on page 128 for this month's best retail deals*

The options are endless.
you can
Canon
EOS 30D DIGITAL
Supported by the extensive EOS system of lenses and accessories the new EOS 30D will prepare you for any challenge on the journey to find that perfect picture. In fact, with so many options, the only difficulty will be deciding what to shoot when you get there. www.canon.co.uk
YYePG Proudly Presents, Thx for Support

# Power *Up!*

**Users of AA batteries take note! Leading rechargeable manufacturer Energizer is back with a new charging system aimed at digital photographers on the move.**

The Energizer Ultra Compact Charger is not only the smallest recharging unit on the market but is also able to power up both AA and AAA cells. Targeted specifically at users of high-drain gadgets, such as digital cameras, the new product is available now.

Alongside the Ultra Compact Charger, Energizer has also recently launched a complete new line-up of rechargeable products, including the Energizer Duo charger, Audio Charger for MP3 players and the Compact Charger Kit, which contains everything users need to charge both AA and AAA battery cells.

Full details of all of Energizer's new products are available at **www.energizer.co.uk**, and a review of the Ultra Compact Charger will appear in the next issue of WDC.

# *Could it* Be Magix?

**If you are one of the many digital snappers out there that finds it difficult to keep track of shots stored on computer, then the latest release from Magix could be for you.**

Magix Photo Manager 2006 incorporates PhotoID, a new imaging technology from Fraunhofer IDMT that can quickly identify duplicate images and group together photos from the same shoot at the touch of a button. Magix promises that deleting duplicate pictures and finding matching photos is made as simple as clicking Search in the program's Windows-compatible interface and then sitting back and waiting for the results to appear.

The software also comes complete with a whole host of archiving and management options in addition to optimisation features for the most common camera phone picture errors. For those who want to improve upon their pictures, Photo Manager 6 also comes with an enhanced version of Photo Clinic that includes newly introduced editing tools such as a Magnetic Lasso.

Out now, it is priced £29.99. More information about Magix Photo Manager 2006 is available at **www.magix.co.uk**

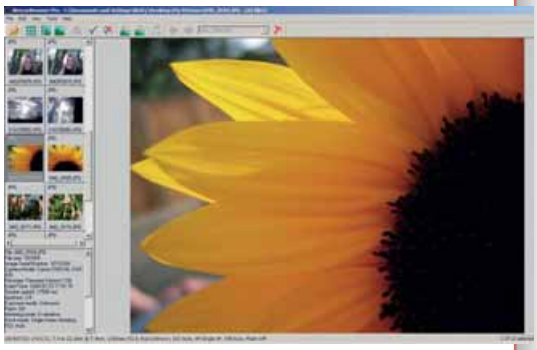
# It's a *Breeze*

**The latest edition of BreezeBrowser Pro has added new support for the Canon EOS 30D and improved colour management to the archiving software.**

The downloadable program has long been a favourite among digital photographers, and uses a browser-style interface to help users present, organise and convert their digital images.

The latest version, v1.4.2 not only brings added support for the Canon 30D, but also fixes problems relating to the handling of PSD and NEF thumbnails. As with previous versions of the software, users can also benefit from a selection of key editing tools, batch renaming capabilities and a function to create contact sheets.

BreezeBrowser Pro runs on Windows and is available as a 15-day free trial from Breeze Systems' website. BreezeBrowser Pro v1.4.2 is also available as a free upgrade for all registered users who have bought a licence within the past year. For more information, or in order to download a free trial, visit www.breezesys.com



# Fluid Mask *2.0*

**Looking for a way to create perfect cutouts from your digital images? Then you may like to check out the latest plug-in from Vertus. The cutout technology manufacturer has unveiled Fluid Mask 2.0 for Windows, a major upgrade to its Adobe Photoshop plug-in.**

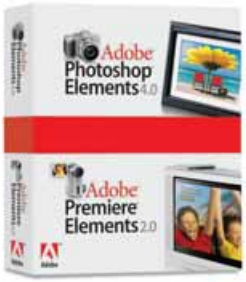
Fluid Mask 2.0 boasts a set of new and enhanced features designed to improve usability and results. Key functions include Edge Overlay, which for the first time shows clean object edges within an image before masking commences. It is also now possible to select, group and mask objects in images for more accurate cutouts using the software.

Vertus also coincides the launch of Fluid Mask 2.0 with the announcement of a price reduction to £149 (from £179) following overwhelming interest from non-corporate customers as well as professional users.

Log on to **www.vertustech.com** for full details.

YYePG Proudly Presents, Thx for Support

Adobe® Photoshop® Elements 4.0 *plus* Adobe® Premiere® Elements 2.0




## Amaze your friends. Even the really creative ones.

Adobe® Photoshop® Elements 4.0 plus Adobe Premiere® Elements 2.0. Edit your photos, create customised DVD's and amaze everyone you know with photos and movies created by you. Let the fun begin. Better by Adobe™. Buy today and get £20 back from Adobe*. *www.adobe.co.uk/elements*

PC WORLD STAPLES JACOBS COMET JESSOPS Carphone Warehouse

Adobe®

*The suggested retail price for Adobe Photoshop Elements plus Adobe Premiere Elements is £99.99 inc VAT. Special Offer of £20 cash back is valid in the U.K. only, within six weeks of purchase, from the retailers featured. To claim £20 cash back, send in-box voucher together with proof of purchase. Offer ends October 31, 2006. Prices may vary and are subject to change. This offer is not available via the Adobe Store, however there are discounts available on upgrade products.
© 2006 Adobe Systems Incorporated. All rights reserved. Adobe, the Adobe logo, Better by Adobe, Photoshop and Premiere are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

YyPG Proudly Presents, Tmazon Support

## PEOPLE & PICTURES

Winning image submitted by BG Group Photographer of the Year, Bryan O'Brien

# Picture Editors' *Awards 2006*

**Amid much fanfare, the winners of the 2006 Picture Editors' Awards have been announced.**

The awards reward the very best in photographic journalism in the UK and Ireland; the winners were chosen by a ballot of picture editors. The ultimate accolade, BG Group Photographer of the Year, went to Bryan O'Brien of the *Irish Times* – the first time the title has crossed the Irish Sea. Colin Lane from the *Liverpool Daily Post & Echo* was named Getty Images Regional Newspaper Photographer of the Year, while the Getty Images Photo Essay Award went to Andrew Parsons of the Press Association. This was a keenly contested category, with entries up a remarkable 147% on last year. Andrew's PA colleague, Phil Noble was crowned BG Group Sports photographer of the Year.

Among the single image categories, Karwai Tang of the Alpha Press Agency took the Fujifilm Royal Photographer of the Year title.

If you fancy taking a look at this year's entries you'll be pleased to hear that for the first time all 8,000 photos submitted to the 2006 Awards are available to view at the Picture Editors' Awards official website at **http://pictureawards.co.uk**

# Death *of Bob Carlos Clarke*

**Photographer Bob Carlos Clarke has died aged 55 after being hit by a train on a level crossing in south-west London.**

Police say they are not treating the death as suspicious, following a report by a witness at the scene.

The award-winning photographer worked in many areas of photography, including fashion, advertising and photojournalism. He also captured many portraits of high-profile celebrities.

Carlos Clarke left his native Ireland in 1964 to study at the West Sussex College of Art. He went on to study at the London College of Printing before taking a degree at the Royal College of Art in 1975.

An inquest into the death has been opened and adjourned to a date yet to be fixed.

© Bob Carlos Clarke

AS SEEN ON TV

## Annabel's *on the telly*

Leading social photographer Annabel Williams is to appear on Channel 5's Gadget Show. Annabel was approached by the program to demonstrate how to create 'laid back' contemporary photographs while having fun with family at the same time. Annabel used her Canon EOS 5D and Digital IXUS for the show.The program airs on April 24th at 7.15pm.
Read our interview with Annabel in the next issue of What Digital Camera, and visit her website at **www.annabelwilliams.com**

## MPs use MPs *to beat the Lords*

MPs just managed to outnumber peers in the winners' circle at this year's Jessops Parliamentary Photographic Competition. The winning images were captured by three MPs and two peers. The MPs were Austin Mitchell, Andrew Miller and Gerald Howarth, while Lord Robertson and Viscount Allenby represented the House of Lords. The public will be given the opportunity to view selected images from the parliamentary photographs when they tour Jessops stores later this year. Further details are available by calling 01162 326017.

YYePG Proudly Presents, Thx for Support

# Travel Photographer *of the year*

**One of the UK's most hotly anticipated photography competitions has opened for its 2006 run. Travel Photographer of the Year (TPOTY) is an international competition designed to find the very best in travel photography.**

Anyone can enter – young or old, amateur or professional – and there's a total prize package worth over £60,000. The competition has four portfolio categories and a single-image category. Each category has a different theme and between them they cover every possible aspect of travel photography. There's even a special category for those aged 16 and under. The competition runs until September 9th and full details are available at **www.tpoty.co.uk**

# HOT *SHOTS*

What's good and what's bad this month

## HOORAY...

**What Digital Camera**

Your favourite magazine won an IPC Editorial award for Best Digital Paging, recognition at last for our tiny but talented team.

**Marie Claire's Angelina Jolie cover**

We loved Yariv Milchan's fab portraits of Angelina Jolie in this month's Marie Claire. Sure, he had a great subject, but these shots are special nonetheless.

**Print longevity**

Thanks to the HP B9180 printer's 300-year print life, your great, great, great, great grandchildren will have something to look back on.

## BOO HOO...

**Konica Minolta rests in peace**

The troubled camera manufacturer has finally relinquished its last claims on key assets, effectively consigning itself to history.

**8MP compacts: what's the point?**

Consumers can't tell the difference after 5 or 6MP on a 6x4inch print according to recent tests. We always said so.

**Garden photography**

Hosepipe bans and unseasonably grey skies should kill off your garden shooting ambitions for a few more weeks.

# WHAT DIGITAL CAMERA *Next Month*

## Mid-Range DSLRs

The Canon EOS 30D takes on the Nikon D200 and Fuji S3Pro in our three-way head to head

## Samsung GX-1S

Panasonic TZ1
Canon IXUS 60

## TECHNIQUES

## PLUS

## Annabel Williams

Exclusive interview with the UK's top social photographer

## Web Hosts

THE GROUP TEST

The best websites for showing off your pics

## Sharpening Techniques

Tips and tricks for quality sharpening

## SD Cards

Which is the fastest?

**ON SALE May 19TH**

YYePG Proudly Presents, Thx for Support

# Best Shot *Selector*

Send us your best photos and win a prize

**Magda** *Straszynska*
**From:** Edmonton, Canada

After first experimenting with her father's old Russian camera in the eighties, Magda has been taking photographs for more than two decades. During this time she has enjoyed shooting and developing in black and white, and has more recently become interested in digital colour photography. You can see more of Magda's work at **www.avenue-art.com**

YYePG Proudly Presents, Thx for Support

**FLOWER SPRAY**
**DETAILS:** Canon EOS 350D, 50mm f/1.8 lens
**MAGDA SAYS:** Here the various little flower heads caught my attention, both the blurred and sharp ones. It's as if you really could have a 'spray' of flowers

***WE SAY:*** *We love the way that the flower heads all sit within their various planes of focus – and that blue background*

**GREEN TO BLUE**
**DETAILS:** Canon EOS 350D, 50mm f/1.8 lens
**MAGDA SAYS:** The contrast between the green, almost fleshy nubs and the papery white petals works for me in this particular image. And the way that the green washes into the blue

***WE SAY:*** *We couldn't have put it better ourselves – even if the buds do remind us of Brussels Sprouts (eughh).*

**REACHING OUT**
**DETAILS:** Canon EOS 350D, 50mm f/1.8 lens
**MAGDA SAYS:** The shallow depth of field draws out the beautiful patterns in this flower for me, like tiny clutches of fingers reaching out

***WE SAY:*** *Magda has an impressive talent for capturing the delicate and ephemeral qualities of her natural subjects*

**MAGDA WINS: A COPY OF ADOBE PHOTOSHOP CS2**
Adobe Photoshop CS2, the professional image-editing software, features groundbreaking creative tools to help you achieve extraordinary results from your photographs. Photoshop CS2 also boasts more efficient editing, processing and file handling.

YYePG Proudly Presents, Thx for Support

## **Tony** *Hamilton*

**From:** Ware, Hertfordshire

Tony has been a photography enthusiast for 30 years, since first running a darkroom at the Ministry of Defence through his work as a research scientist. Now retired, his life as an ME sufferer features heavily in his images, examining psychological themes and the idea of being 'trapped' in the human mind. Tony recently converted to digital technology by buying a Nikon D200.

YYePG Proudly Presents, Thx for Support



Visit www.epson.co.uk or call 0800 220 546 for further information on EPSON products

## THE LONG ROAD

**DETAILS:** Nikon F1, 24mm lens, Photoshop 6, Nikon Super CoolScan 4000, Apple G4

**TONY SAYS:** This photograph was taken out of the front windscreen of my car as my wife and I were driving along one day. It looked so bleak because there was this long empty road with hardly any traffic. I then went to a local garden centre and saw this statue of a woman with a baby, and I just thought, what a long way there is to go – like a long road – when you raise a child

***WE SAY:*** *This is an intriguing and atmospheric image that has been skilfully constructed*

## ROOM FOR THOUGHT

**DETAILS:** Nikon F1, 24mm lens, Photoshop 6, Nikon Super CoolScan 4000, Apple Mac G4

**TONY SAYS:** I love entrances and exits, and old places with columns and archways. I wanted this to be like a metaphor for the mind – all the different parts of the brain and thought processes

***WE SAY:*** *This image is reminiscent of the work of M C Escher*

**TONY WINS: AN EPSON STYLUS R800 PRINTER**

The Stylus Photo R800 features EPSON's UltraChrome Hi-Gloss pigment ink, to deliver groundbreaking quality, durability and flexibility in printing.

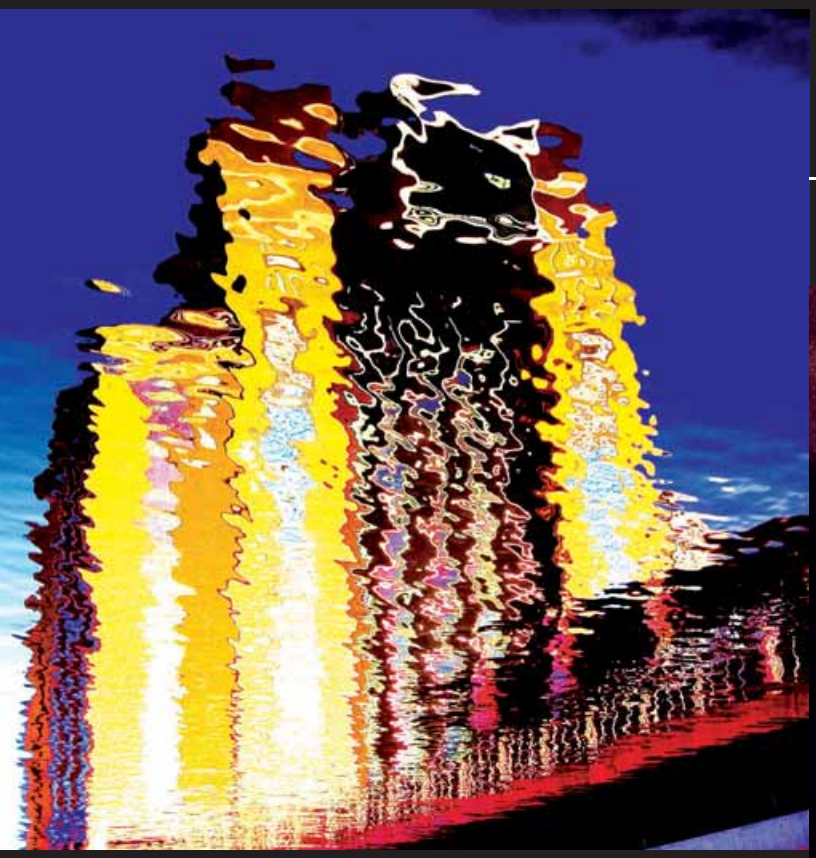
Yes, G Proudly Presents, Mix for Support

## THE GREAT DIVIDE

**DETAILS:** Nikon F1, 24mm lens, Photoshop 6, Nikon Super CoolScan 4000, Apple Mac G4

**TONY SAYS:** I'm not religious but it seems religion is again at the forefront of people's minds. There's a Sikh in the background in the bastion of this Church of England setting, used to signify the gulf between the religions. We all worship the same god but there's such a chasm between religions, which I think is a real shame

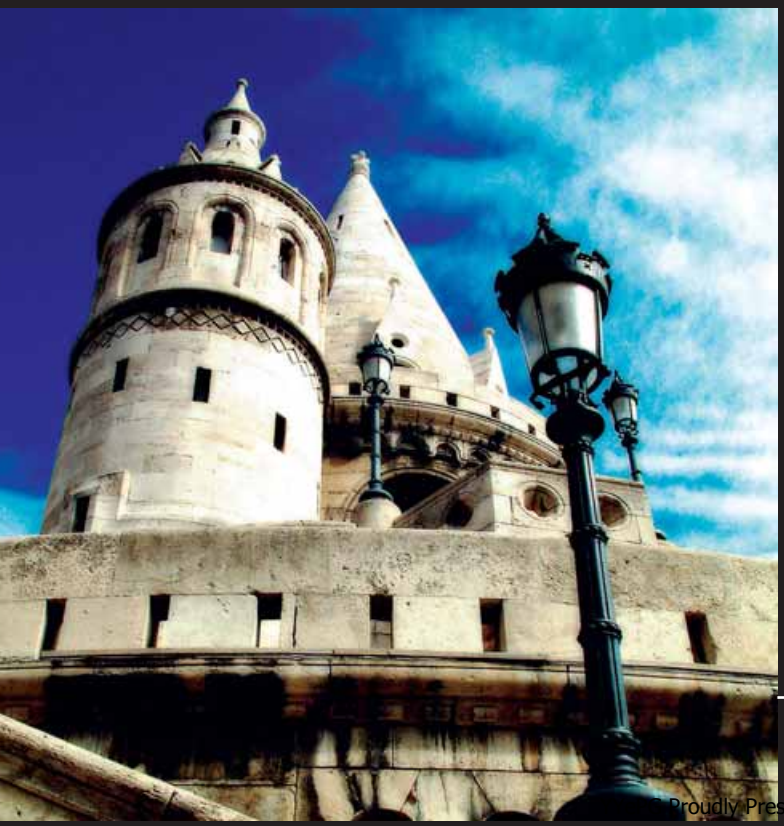
***WE SAY:*** *It's good to see this amount of thought going into our readers' images*



## John *Picton*

**From:** Blaydon on Tyne

I've been interested in photography for the past ten years now, and have recently aimed to try to take photographs that no one else has. I want to be different and take images that stand out.



### BALTIC ARTS CENTRE

**DETAILS:** Nikon D50, 18-55mm zoom at 55mm, 1/100 sec, F/5

**JOHN SAYS:** This is a shot of the Baltic Centre for Contemporary Arts on the Newcastle upon Tyne quayside. It's the old Baltic Flour Mill and has been converted into a gallery. This image is of the reflection of the building in the Tyne, flipped and rotated. I used the Hue/Saturation and Replace Color tools in Photoshop to get the mega-vivid effect I wanted

***WE SAY:*** *A stunning abstract with loads of impact. It was a great idea to flip the reflection too, and the colours work really well*

### THE FISHERMAN'S BASTION

**DETAILS:** Fuji 4900, 1/250 sec, f/9, Wide setting

**JOHN SAYS:** It's the Fisherman's Bastion in the Old Town of Budapest. Taken mid-morning just before the tourist buses arrived. I wanted a soft but slightly grainy effect for this one

***WE SAY:*** *John has captured this shot at a dramatic low angle. The use of hyper-real colourisation has enhanced the Gothic feel of the architecture and created something different*

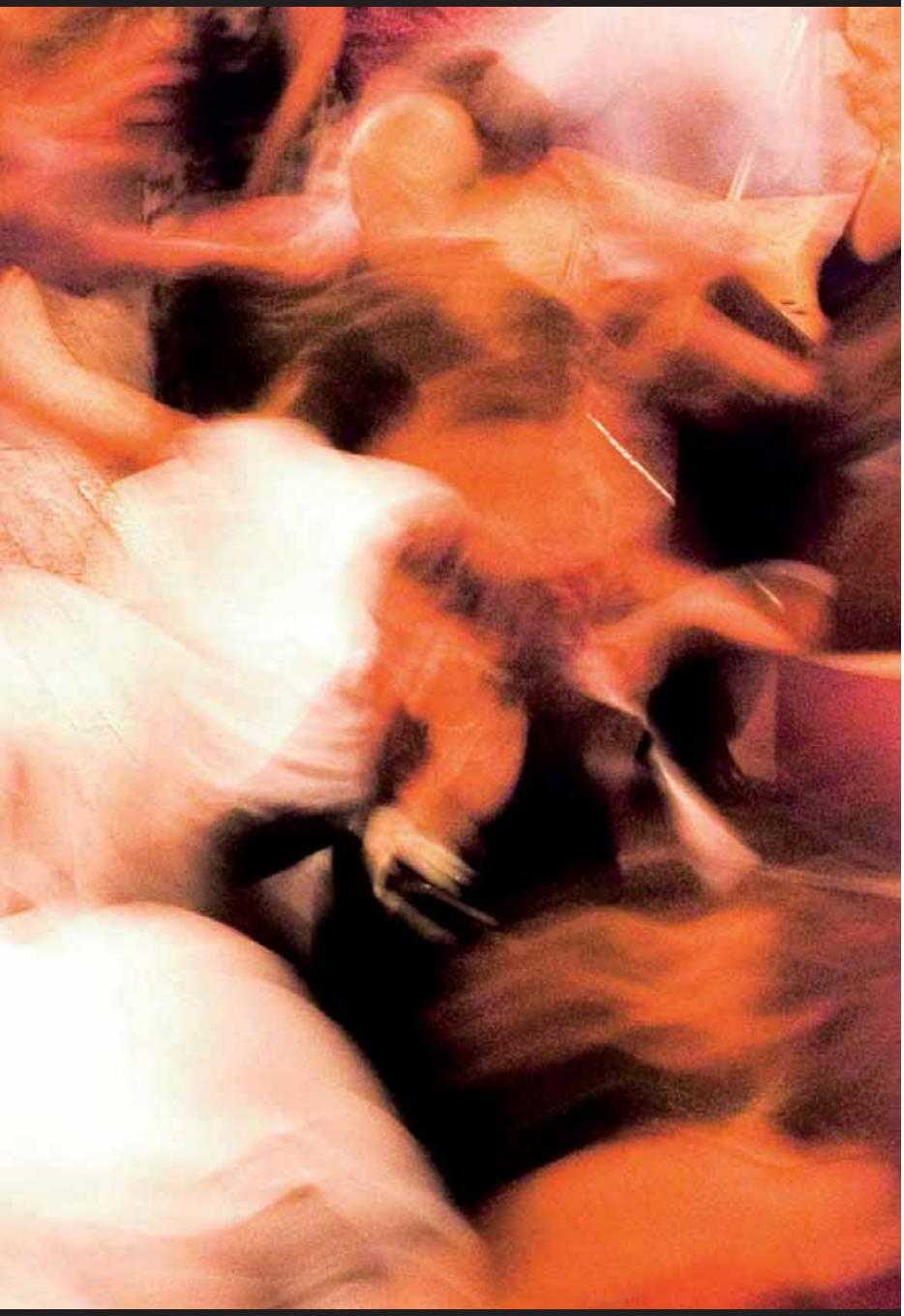
Proudly Presents, Thx for Support

## THE DANCE

**DETAILS:** Nikon D50, 18-55mm zoom at 55mm, 1/2 sec, f/5.6

**JOHN SAYS:** A friend of mine wanted me to take some pictures of his wedding reception. As everybody there had digital cameras I decided to go for something a bit different. I used a shutter speed of half a second, hand held during the Ceilidh

***WE SAY:*** *And a good decision it was too. You've captured a much more interesting photograph than you would have done had you just stuck the camera in automatic mode and let the pop-up flash do its evil work. You really get a sense of the fun and movement of the occasion when viewing this image*



**JOHN WINS: £100 VOUCHER FROM WAREHOUSE EXPRESS**

John wins £100 in vouchers to spend on whatever takes his fancy at award-winning online retailer, Warehouse Express. Check out their vast range of stock at www.warehouseexpress.com

www.warehouseexpress.com
Independent 'Retailer of the Year' 2002, 2003 & 2004

WORTH £100

# SEND US YOUR BEST PICTURES

## ...and you could win a fantastic prize

Want to see your work in print? Fancy winning yourself a tasty prize? Then send us your pictures! Our favourite images received each month will be published in Best Shot Selector, and win one of the prizes shown below. The rest will be published elsewhere in the magazine or on our website gallery – potentially winning additional great prizes along the way.

**>> BY POST** Send no more than 20 TIFFS or best quality JPEGS, on a CD, to the address on the label above, enclosing a sheet of thumbnails for reference.

**>> BY EMAIL** Send no more than five JPEG (best quality) images to: **wdc@ipcmedia.com**

**Your Pictures** *Images must be big enough to reproduce at a reasonable size. Make sure they're:*
*• At least 1800x1200 pixels in size. This equates to a printed size of 15x10cm (6x4in) at 300ppi – or an open file size of about 8MB per image, before saving.*
*• If emailing, bear in mind that JPEGS are much smaller when not open, but make sure attachments don't exceed 3MB in total. Send more than one email if necessary.*
*• Be sure to include your name, full contact details and image caption details on the CD or email.*

## YOU COULD *WIN!*

**ADOBE PHOTOSHOP CS2**
The best image-editing software in the world – bar none

**EPSON R800 A4 PRINTER**
State-of-the-art inkjet featuring Epson's UltraChrome Hi-Gloss pigment ink

**£100 WAREHOUSE EXPRESS VOUCHER**
Buy whatever you fancy, from one of the UK's premier photo retailers

www.warehouseexpress.com
Independent 'Retailer of the Year' 2002, 2003 & 2004

YYePG Proudly Presents, Thx for Support

## CANON EOS 30D

quick view

**PRICE £1200**

- SENSOR: APS-C CMOS (22.5x15mm) 8.2MP Effective
- SHUTTER SPEED: 30 to 1/8000 sec/B
- ISO: 100-1600 (expanded 3200)
- EXP MODES: M,A,S,P, 6 Scene, Custom
- FLASH: Built in/ Hotshoe/PC
- VIEWFINDER: Pentaprism
- MONITOR: 2.5in TFT 230,000 pixels
- OTHER: CF I& II, JPEG, RAW, 5fps, Picture Style
- POWER: Li-Ion
- DIMENSIONS/WEIGHT: 144 x 105.5 x 73.5mm/700g

**8** mega pixels

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

# Style & Substance

The 30D follows on from the highly successful 20D. **Jamie Harrison** finds out if this upgrade has anything of substance to offer

**TAKE THE 360° VIRTUAL TOUR ONLY ON THE WEB**
www.whatdigitalcamera.com

WHAT DIGITAL CAMERA choice

YYePG Proudly Presents, Thx for Support

**Above:** JPEGs can lack 'bite' with a slightly flat contrast that benefits from some post processing

**Right:** Exposures are generally very good, and even images with a lot of highlight detail, such as this, expose well

## see more on the web

Download our Canon EOS 30D test images on our website,

**www.whatdigitalcamera.com**

**back** view

A major addition to the camera is the large 2.5in LCD. Aperture and exposure compensation is controlled by the scroll wheel

**top** view

There's little difference on the top-plate between this and the 20D. The grey LCD shows camera information, while the mode dial offers plenty of options, and allows fast changes between modes

**side** view

The plastic CF chamber door is secure. The other side (not shown) has ports for PC, AC, Video and remote protected by a rubber port cover

# Canon EOS 30D

**If you want to cause confusion to camera buffs and journalists the easy way to do it is launch a camera called the D30, then launch another one a few years later called the 30D. Of course the 30D follows on from the highly successful and regarded 20D, itself a follow on from the 10D, which replaced the D60, the successor to the D30.**

**Series numbers aside, the outcome of this progression of models has generally been an increase in the amount of pixels on the sensor: from 3MP to 6MP and now 8MP. Both the D60 and the 10D had 6 million pixels; the 20D and the new 30D have 8MP. So is the new camera that much different from its predecessor? Let's take a look at the 30D and see if it lives up to the reputation set by its forebears.**

### FEATURES

Canon continues its dedication to the CMOS sensor, and the 30D contains the same version as the EOS 20D, with 8.2 million effective pixels, out of a total 8.5million. The sensor is also APS-C size, which offers a 1.6x shift in focal length on 35mm format lenses. Speaking of lenses, the camera continues to use the Canon EF mount, which means any Canon AF lens may be used, or similar from the independent lens makers.

So, what sets this camera apart from the 20D? Basically the camera has been updated to take advantage of some of the newer features Canon has been including in recent cameras. To start with there's a larger LCD screen, with 2.5 diagonal inches of viewable area, 230,000 pixels and a quoted viewing angle of 85° from most directions. Actually this is a little confusing; most manufacturers would refer to this as a 170° viewing angle, which sounds better, but also I think gives a better illustration of how easy it is to see the screen at obtuse angles.

Introducing a new camera with a large screen is nothing new of course; Nikon did the same with the D70s, and Canon followed up the EOS 1D Mk II with the 'n' version and an added half an inch. But, like the Mk IIn, there's more that has been added to the 30D. Canon has added its Picture Style software to the camera. We've covered this in reviews of recent digital cameras, but I'll briefly recap. Picture

YYePG Proudly Presents. Thx for Support

## up against

CHECK OUT THESE SIMILAR CAMERAS IN OUR PRICE COMPARISON BEFORE YOU BUY

**NIKON D200 £1200**

**FUJIFILM S3 PRO £1200**

**OLYMPUS E-330 £900**

## buying guide

*Turn to page 122 to use our extensive buying guide and we will help you choose the right camera at the right price.*

# CANON EOS 30D
## quick view

**VIEWFINDER**
The 95% field of view is about average for this type of camera, and the information in the viewfinder is bright and clear. There's also dioptre control and a rubber viewfinder hood, so you don't scratch your viewfinder

**LCD**
The 2.5in LCD monitor is clear, though the type is rather small. The scrolling, Jump options make it easy to find your way around

**Scroll Wheel**
Turn the power switch to the unmarked notch to gain control over aperture in manual mode and exposure compensation in other modes. This isn't the most logical of systems and, until you get used to the camera, can cause a lot of wasted time.

Style provides a sub menu to allow you to add in-camera digital optimisation for popular subjects such as portraits or landscapes. There are various curves and settings for vivid, neutral or natural images, as well as black & white options. And you can download more options from the web, or build your own custom effects. It's like scene modes on steroids and works well. If you're shooting in RAW you can add the effect or delete if you're not happy. The other major upgrade incorporated into the EOS 30D is the frame rate, which has been increased from 5fps over 23 frames on the 20D, to 5fps over 30fps. This increase in buffer size may not be that significant to most, but if you're interested in sport or wildlife it could save your photographic life.

In other respects, there's much the same as before. The camera has a DIGIC II processor, magnesium alloy shell and the same shutter speeds as before. The AF system is the same as the 20D too, with a nine-selectable point system, enabling easy and fast focusing on off-centre subjects. Similarly the cameras share the same metering system, including AF linked evaluative metering, 3.5% central area spot metering and good old-fashioned centreweighted metering.

### DESIGN

The overriding design factor is the inclusion of the larger screen. However, there's still plenty of space on the camera's back.

The rest of the design ethos of Canon cameras remains intact, and this model is instantly recognisable as a Canon model. It's very well made and comfortable to hold, thanks to its robust and sturdy build, and also owing to the rubber grip.

The top-plate has a large LCD screen with readouts for photographic controls such as aperture, shutter, white balance, file format, drive mode and exposure compensation. There's also a battery status symbol.

Many of these settings can be changed with the buttons placed close by, in combination with the front controller and rear command dial. The left side has the mode dial, featuring the usual array

## image *quality*

For the most part the EOS 30D is capable of some extremely fine images, and generally exposure and colour are very good. The camera does suffer from Canon's standard flat image look though, and I feel most images could do with a slight tweak in contrast to get rid of a slight milky look that faintly covers the images. Viewed alone this is barely noticeable but compared to an image from another camera, or viewed before and after correction, you can see it quite clearly. This is noticeable in JPEG images as well as RAW.

**see more** *on the web*

Download our 30D test images on our website

**www.whatdigitalcamera.com**

In terms of noise, the 30D performs very well, even at high ISO settings. ISO 1000 is about the highest I would recommend for comfortable images; any higher and I would be concerned about how the noise will show in the final images.

Finally a word about lenses. Several images I shot were less sharp than I'd hoped because of the quality of some of the cheaper Canon lenses. So it's worth investing in a decent lens, at least as a day-to-day standard, unless you want to see unsharp images and a higher incidence of fringing.

Generally though, I can't see many people complaining about the quality of the images they might get from the Canon EOS 30D.

YYePG Proudly Presents, Thx for Support

## **COLOUR** *AND CONTRAST*

Images could do with a bit of post processing, as there's a lack of punch, even to JPEGs. The positive side to this is that highlights and shadow detail is maintained in the images, with a good range of tones and pleasant colours.

YYePG Proudly Presents, Thx for Support

# CANON EOS 30D
## quick view

WHAT DIGITAL CAMERA

**FLASH**
For a bit of fill-in, or for an emergency, the EOS 30D has a quite acceptable built-in flash. For more involved work, a hotshoe offers dedicated flash lighting. A PC socket is also available if you really want to get clever

**LCD**
Information about shooting modes, image quality, white balance, and much more is provided here. Much of the information is also provided in the LED readout in the viewfinder

of manual through to program modes. There's also an auto mode and a set of scene modes, although considering the camera's target audience of enthusiasts and semi-professionals I think these are perhaps unnecessary, or even condescending.

In the centre of the top-plate on top of the pentaprism is a hotshoe and built-in flash. The flash covers up to 17mm lenses (equivalent to 27mm) and has a guide number of 13m – not too shabby.

> 'If you're moving up from an EOS 300D or 350D you'd probably appreciate the extra features and build quality'

On the side of the camera is a PC socket for attaching external flash units or studio lights. This socket is protected by a tough rubber cover, also covering the remote control, USB Hi-Speed and video out ports.

The back houses the LCD, the menu controls, and the rear command wheel, which allows menu and picture scrolling, with a central 'set' button. It doubles as aperture control and exposure compensation setting, which I always find awkward to use, as you need to set the power button to an unlabelled white line, which doesn't give the game away. Finally there's a toggle switch to allow manual control of the nine AF points, in conjunction with the AF selection button at the top right.

### PERFORMANCE

For starters I can attest to the camera's weatherproofing, after getting caught in a late March shower. As for camera timing, it's nippy, with near-instantaneous start up. The continuous burst mode offers up to 5fps over 30 frames in largest JPEG mode. Using a SanDisk Extreme III card, I managed a one-minute burst of 224 images, with a sustained 5fps burst lasting for the first 30 seconds to capture 150 images before the buffer filled up and the camera slowed down. Of course, that's using manual exposure and focus, so the camera has nothing else to think about. But that's impressive nevertheless, with an average one-minute burst speed of 3.7fps.

In other areas the camera performs well too. The AF is generally spot on, though it can at times dance between focus points or choose the wrong one, in which case you need to switch to manual selection. Canon also knows a thing or two about menu design: I like its scrolling action and fast jump to different sections, though I still find the typeface quite small compared to other systems.

### VALUE

At £1200, the EOS 30D isn't cheap, and I wouldn't suggest upgrading from the 20D. But if you're moving up from, say, a 300D or 350D, you'd probably appreciate the extra features and build quality. Similarly, for those keen Canon users switching to digital for the first time, the build quality and features make the camera a viable option.

### VERDICT

*As a new camera the Canon EOS 30D is a bit of a disappointment, but viewed as an upgrade to an already very good camera, it performs its role well. So while the extra functions don't excite us as much as a brand new model would, the Canon 30D is still a very good camera. Canon may appear to have missed a trick by not announcing something totally new in the same price bracket as the Nikon D200 that matches its pixel count. But Canon is canny, and it's rare that any opportunity is missed, so I suspect there's something else up Canon's sleeve. The 30D is a good camera but, in the grand scheme of things, perhaps not an important one.*

YYePG Proudly Presents, Thx for Support

## specifications

| | |
|---|---|
| MANUFACTURER: | Canon |
| MODEL: | EOS 30D |
| PRICE: | £1200 |
| SENSOR: | CMOS APS-C (22.5 x 15.0mm), 8.2MP effective, 8.5MP total, 3504x2336 pixels |
| MAX PRINT SIZE: | 17.52x11.68" @ 200dpi |
| LENS: | Canon EF Mount |
| SHUTTER SPEEDS: | 30-1/8000sec + B |
| ISO: | 100-1600 + 3200 expanded |
| EXP MODES: | M,A,S,P 6 Scene, Auto, Picture Style |
| FLASH: | Built-in, Hotshoe, PC |
| DRIVE MODES: | Single, Continuous 5fps over 30 JPEG |
| METER: | Evaluative, Centre weighted, 3.5% spot |
| WHITE BALANCE: | Auto, manual, Kelvin, Preset |
| VIEWFINDER: | Pentaprism, 95%view |
| MONITOR: | 2.5in TFT, 230,000pixels |
| CONNECTION: | USB 2.0 |
| REC FORMAT: | JPEG, CR2 (RAW), Simultaneous RAW+JPEG |
| FILE SUPPORT: | DSC, DPOF, PictBridge, CanonDirectPrint |
| VIDEO OUTPUT: | NTSC/PAL |
| POWER: | Li-Ion |
| STORAGE: | CF |
| OTHER: | Picture Style, Canon PhotoSolutions Pro |
| DIMENSIONS: | 144 x 105.5 x 73.5mm |
| WEIGHT: | 700g |

## what we *think*

**WHAT WE LIKE:**
Build quality, LCD, menu system, low noise, high specifications

**WHAT WE DON'T LIKE:**
Images need some post processing to reduce flat look, aperture/exposure compensation system, depth of preview button in wrong place

## the *scores*

| | |
|---|---|
| FEATURES<br>Specification, controls | 18 |
| DESIGN<br>Build, handling, ease of use | 17 |
| PERFORMANCE<br>Metering, focus etc | 18 |
| IMAGE QUALITY<br>Sharpness, colour etc | 17 |
| VALUE<br>Based on RRP | 17 |

**87%**

# Photo Adventure Pack

A camera bag that doesn't look like a camera bag.
The Adventure series feature a large compartment on top for personal items and a fully foam-padded camera compartment.
The perfect companion for an active day of photography.
For details visit our web site at www.intro2020.co.uk

Adventure 7
Model 5547

Adventure 6
Model 5546

Intro2020 Ltd Priors Way, Maidenhead, Berkshire SL6 2HR
Tel: 01628 674411 Fax: 01628 771055
sales@intro2020.co.uk

**www.intro2020.co.uk**

tamrac®

No One Carries It Off Better

# SAMSUNG GX-1L

**6 mega pixels**

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

**back** view

Button layout is good, the viewfinder clear and there's still plenty of room on the back for uncluttered button placement

**top** view

Looking like a film SLR, there's a very non-digital feel to the controls on the top of the GX-1L, which looks simple enough to use from the top-plate alone

**side** view

Just like the *ist series, a side door pops open at the lifting of a locking switch to reveal the SD card slot

WHAT DIGITAL CAMERA choice

## quick *specs*

- **SENSOR** 6.3MP CCD (23.5x15.7mm) 6.1MP effective
- **SHUTTER SPEED** 30 - 1/4000sec + B
- **ISO** 200-3200
- **EXP MODES** M, A, S, P, 20 Scene
- **FLASH** Built in/ Hotshoe
- **VIEWFINDER** Pentamirror
- **MONITOR** 2.5in 210,000pixel LCD
- **OTHER** SD, RAW, 2.8 fps
- **POWER** 4xAA
- **SIZE/WEIGHT** 125 x 92.5 x 67mm/470g

## up *against*

CHECK OUT THESE SIMILAR CAMERAS IN OUR PRICE COMPARISON BEFORE YOU BUY

**NIKON D70S**
£580

**PENTAX *IST DL**
£480

**OLYMPUS E-500**
£500

## buying *guide*

Turn to page 122 to use our extensive buying guide and we will help you choose the right camera at the right price.

# Samsung GX-1L

## A brand new yet strangely familiar camera

**£550**

**Tested by** *Joël Lacey*

www.samsung.co.uk

**The ongoing 'co-operation' between Samsung and Pentax continues with this 6.1MP model that startlingly resembles the Japan-only most-recently launched Pentax DSLR. Surely nothing more than an amazing coincidence. Whoever the actual brains behind this model, the Samsung GX-1L is a solid-feeling DSLR that offers a whole plethora of features including a Pentax K lens fitting, even if the manual stentorianly advises that only Samsung Xenon-D lenses be used. Given the huge number of Pentax KAF, and KAF-2 lenses out there, you'd think Samsung would appreciate the benefits of targeting existing Pentax film SLR owners, but apparently not. In fact, the manual is an exercise in not mentioning Pentax.**

### FEATURES

The specifications of the camera will be familiar to those who own a Pentax *ist model of some kind, but let's look at the specs in a bit more detail. On the chip front, the 6.3MP total CCD delivers a maximum resolution image of 3008x2000 pixels – enough for A3 prints with a thin-ish white border around them at a 200 pixels per inch printing resolution. The exposure system uses a 16-zone evaluative metering system that also offers a centreweighted or a spot metering option. The metering system uses focus information for added accuracy and this comes from a five-zone AF system to deliver focusing down to less than 10ins with the standard lens. As with all SLRs, this is measured from the chip, so in fact you can get as close to about four and a bit inches from the front of the lens. The frame's positions are shown in the viewfinder but do not illuminate to show you which frame is actually doing the focusing. Though this may seem like a missing function, I think the illuminated frames idea is often more distracting than helpful. As the image in the eyepiece is shown at maximum aperture, you are only ever going to get more depth of field than that shown through the eyepiece. If it looks sharp through the eyepiece, it will be sharp in the final image. To be frank, it doesn't matter which frame is doing the focusing as long as it is focusing in the right plane.

On the exposure side, there's a whole range of modes on the mode dial on the top left of the camera. The usual Manual, Aperture and Shutter Priority and Program modes are joined by five scenes on the dial and an additional eight from the scene position on the dial, as well as an auto scene mode if this is all too complicated for you.

As well as setting metering parameters, these scene modes will also make judgments about the best focusing and flash modes to use for a given scene. In these scene modes, the flash will pop-up (or not) automatically whereas in the modes that require more user control it is up to the photographer to manually pop the flash up. This means that if you're in a situation where you don't want flash (say, a candid portrait) the camera won't give the game away for you by flicking up and popping an anti-redeye flash out that will warn the subject they are being photographed. There's also

YYePG Proudly Presents, Thx for Support

INFO BUTTON
The info button allows you to select the level of information you want to see on screen when reviewing pics. A press in record mode shows pretty much every setting of the camera on a single screen
CONTROL WHEEL
The control wheel on the back of the camera is used to change exposure settings in record mode and to zoom in (or select thumbnail view) in review mode
FN BUTTON
The FN button allows speedy access to four settings (ISO, White balance, flash mode and drive mode) that are set with the four-way controller
UP
AE-L
MENU
INFO
OK
Fn
Rec. Mode
Image Tone
Recorded Pixels
Quality Level
Saturation
Sharpness
Contrast
MENU Exit
SAMSUNG

a flash-off mode and a B setting to allow you to shoot long exposures. There are controls for saturation, contrast and sharpness in the non-scene modes, as well as a choice between two image tone modes.

Add in all the usual exposure and flash exposure compensation modes, three metering modes and a trio of focusing modes and the GX-1L is pretty comprehensively specified. The optical viewfinder uses a reflex mirror to direct the taking lens's image into a dioptre-adjustable eyepiece and you can review images on the 2.5in LCD.

There is a third position on the on/off switch for depth of field preview. Here, rather than the usual darkening of the viewfinder, the camera takes a quick image at the chosen aperture and displays it on the monitor. I like this feature, but it does make you think it's probably better to take a picture, examine it and delete it if the image is wrong. I was cursing when I got the perfect composition for my depth of field preview for an end-of-arm shot from above, then failed to replicate the framing for the actual picture.

Apart from this electronic DOF preview, then, and the digital filters (whose black & white, sepia, brightness and Slim options can be more accurately achieved in a specialised software), I cannot think of any other redundant features on the GX-1L.

The 'Slim' feature will make everything in the image look thinner. In effect, it is squashing the image sideways, though you can squash it vertically if you prefer and make it a 'Fatten' filter, or if you wish to slim when dealing with a shot taken in the vertical portrait aspect. The net effect is that of, for example, shooting a squeezed fat person rather than slimming them. Sadly, and only as I fear for my life, I cannot print the results this filter had on any family member or friend.

## DESIGN

The design of the camera is simple on the outside, complex on the inside. In other words you won't be too bamboozled if you steer clear of the menu and FN (function) buttons as all the controls that are physically selected by button or switch are self explanatory. You will need to bone-up in the manual on other features for menu and function-controlled features. The sculpted nature of the GX-1L, particularly for the all-important right-hand grip, means the camera feels safe and secure when held. Also you can shoot one-handed if absolutely necessary. The

'Sadly I cannot print the results this filter had on any family member or friend'

## image *quality*

On days with a featureless sky and flat lighting, the images were saturated and colourful without being alarming in colour. Indoors with flash, the colours were excellent as was the detail level. In shots of landscapes with defocused twigs, there was a hint of cyan/magenta fringing, but you will get that on virtually any model as you zoom in for a pixel-by-pixel look. In terms of gradation of tone the GX-1L does a fine job, with both natural and man-made items recording with a natural, almost film-like, feel. I felt happy about the camera's interpretation of all the images I shot during the test and that's about as good a recommendation as you can get.

**see more** *on the web*

Download our GX-1L test images on our website

**www.whatdigitalcamera.com**

YYePG Proudly Presents, Thx for Support

## **COLOUR** *AND TONES*

With its minimum ISO setting of 200 the GX-1L nonetheless delivers images that are smooth in tone and akin to an analogue rather than digital picture. The sloughed-off outer skin of the crocus's flower head is subtly rendered and the colour tones are all natural without appearing lacking in saturation.

YePG Proudly Present - Thx for Support

MODE DIAL
This dial considerably speeds up the process of choosing an appropriate shooting mode and should also make film SLR users feel at home
ON/OFF SWITCH
The on/off switch has a third position for a depth of field review mode. Rather than stopping down the aperture to show a darker version of the scene through the eyepiece, this takes a non-saveable picture to show what the image will look like
EXPOSURE COMPENSATION BUTTON
This button doubles as the Aperture selection button when the camera is in manual exposure mode
55 45 35 24 18
OFF ON
AUTO SCN
SCN
Av
AUTO

controls move with a very positive click, and feel built-to-last. They are widely spaced and easy to use in combination with the generous if not excessively large LCD. There's as much or as little information as you could wish for, including histogram display for manual assessment of image tone. The viewfinder eyepiece's field of view is absolutely fine for most framing situations with the missing 4% (it has 96% image coverage) being an irrelevance for everything but edge-to-edge document copying, which is not high on my favourite subjects shooting list.

Playback, zoom and the other review features, including the digital filters, are easy to use as well.

## PERFORMANCE

The camera is nippy in action and switches on and off relatively quickly. Having used a (very) similar camera before, I found it a piece of cake to use. The viewfinder is clear and the information display comprehensive enough to allow you to make the right decisions quickly and easily. The focusing system had problems with none of the subjects I pointed it at almost irrespective of light levels or contrast, which can't be bad. Trying it with a 300mm lens might be a different matter, but with the 18-55mm standard lens it proved a capable performer. The exposure system was sometimes fooled by scenes with strong backlighting but this should be easy to spot at the time with the instant image review, and it proved to be nothing that a very little tweak of Photoshop's levels command was not able to correct.

Flash exposures were very good and the control of output was especially impressive when it came to shooting subjects close to, with very little burn-out of highlight detail. Noise was very well controlled and even though the minimum ISO is 200, the auto ISO setting is unlikely to upset you unless it reaches all the way to 1600.

What you get from a 6MP image depends on the quality of the sensor and the image processing. Both are good on the GX-1L. I found the default image tone a touch warm for my liking, but you can alter that by selecting the alternative image tone.

Shooting at minimum compression JPEG setting proved adequate for the huge majority of the shots I took and if you aren't doing archival work I'm not sure I'd be too bothered about switching to RAW for the small level of improvement you might get.

'How much tinkering Samsung did under the bonnet is a moot point'

## VALUE

It's amazing when you think that you get a fully featured DSLR for what used to be the price of a mid-range film SLR. In its modern context, this is a keenly priced DSLR and given its pedigree I think it can be considered to be good value. It's rich in features and shouldn't break the bank, which is what you want.

## VERDICT

*How much tinkering Samsung has done under the Pentax bonnet is a bit of a moot point. The Pentax *ist digital SLRs were good before Samsung got involved and the GX-1L is very good too. It lacks a combined RAW and JPEG shooting mode, but other than that, there's little that anyone could say it lacks from a features point of view. It's easy to use automatically and the manual overrides and more sophisticated manual features should be self-explanatory for any reasonably experienced photographer. Best of all, the GX-1L delivers great images with a minimum of fuss and with a certain panache. In short, it's a camera I can happily recommend, and one I'd be happy to buy.* **WDC**

YYePG Proudly Presents, Thx for Support

# specifications

| | |
|---|---|
| MANUFACTURER: | Samsung |
| MODEL: | GX-1L |
| PRICE: | £550 |
| SENSOR: | 6.3MP CCD (23.5x15.7mm) 6.1MP Effective, 3008x2000pixels |
| MAX PRINT SIZE: | 15x10 inches at 200ppi |
| LENS: | Pentax K-AF/ K-AF 2 |
| SHUTTER SPEEDS: | 30 – 1/4000sec & Bulb |
| ISO: | 200-3200 full stop increments |
| EXP MODES: | M, A, S, P, 20 Scene modes |
| FLASH: | Hotshoe, Pop up flash GN 15.6 (at ISO 200) |
| DRIVE MODES: | Single, continuous 2.8fps (5 shots JPEG, 3 shots RAW) |
| METER: | 16 segment AF-linked evaluative, spot, Centreweighted |
| WHITE BALANCE: | Auto, 8 preset, 1 custom |
| FOCUS: | 5 zone AF, single, continuous, manual |
| VIEWFINDER: | Penta mirror, 96% coverage |
| MONITOR: | 2.5in TFT LCD |
| CONNECTION: | USB, AV |
| REC FORMAT: | JPEG, RAW |
| FILE SUPPORT: | PictBridge, EXIF, DPOF |
| VIDEO OUTPUT: | NTSC, Pal |
| POWER: | 4xAA |
| STORAGE: | SD |
| OTHER: | sRGB |
| DIMENSIONS: | 125 x 92.5 x 67mm |
| WEIGHT: | 470g |

# what we *think*

**WHAT WE LIKE:**
Excellent image quality for pixel count; all round ease of use; speed in action

**WHAT WE DON'T LIKE:**
Slight fringing of fine neutral detail; depth of field preview method seems a bit pointless

# the *scores*

| | | |
|---|---|---|
| FEATURES | Specifications, controls | 18 |
| DESIGN | Build, handling, ease of use | 18 |
| PERFORMANCE | Metering, focus etc | 17 |
| IMAGE QUALITY | Sharpness, colour etc | 17 |
| VALUE | Based on RRP | 18 |

**88%**

# Zoom in on your favourite smile

## Capture family memories with the quality they deserve

Ready to do more than your digital camera's standard lens can handle? Then you're ready for a second lens that delivers impressive telephoto zoom performance. Give your family snapshots superior quality. It's so easy, you'll smile, too.

85-310mm range when converted to 35mm film format.

*For Digital*

## AF55-200mm F/4-5.6 Di II LD MACRO

Model A15

For Canon AF, Konica Minolta AF-D and Nikon AF-D

200mm (Equivalent to 310mm) Exposure: Aperture fully opened Auto ISO 200 WB:Shade

NEW

**AF55-200mm** (model A15)

Di II Lenses designed for exclusive use on digital cameras with smaller-size imagers.

* This lens is not designed for use with 35mm film cameras and digital SLR cameras with image sensors larger than 24 x 16mm.

Imported in the UK by
Intro 2020 Ltd.
Priors Way, Maidenhead, Berkshire SL6 2HR
Tel: 01628 674411
sales@intro2020.co.uk
**www.intro2020.co.uk**

TAMRON®

Tamron - Manufacturer of precise and sophisticated optical products for a broad range of industries.

YYePG Proudly Presents, Thx for Support

# OLYMPUS Mju 810

**8** mega pixels **3**x zoom

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

**back** view

The rear is dominated by a 2.5in LCD. There's also a conveniently sized D-pad and mode wheel

**top** view

Clean and uncluttered, the top of the 810 houses the camera's power switch and shutter release button

**side** view

Switch to the right hand side of the camera to find the 810's USB port and wrist strap connection loop. The camera's asymmetrical design offers increased space on this side

WHAT DIGITAL CAMERA choice

# Olympus mju 810

## We test drive the latest 8MP offering from Olympus

**Tested by** *Natalie Hitchins* **£330** www.olympus.co.uk

**Small but perfectly formed, the latest arrival from Olympus is at first glance everything we have come to expect from the manufacturer's stylish mju line up. Combining 3x optical zoom, a 2.5in LCD and a range of home-grown technologies, Olympus hopes its newest mju will turn heads.**

### FEATURES

Like any self-respecting compact the 810 offers a healthy clutch of exposure modes, adding the likes of Beach & Snow, Candle and Available Light to the usual Portrait, Landscape and Sport modes we've come to expect from cameras in this class. A twist comes courtesy of Olympus's BrightCapture Technology. This increases the camera's sensitivity to enable more accurately exposed night-time shots while simultaneously brightening the 2.5in LCD.

### DESIGN

The camera's matte, all-metal casing is resistant to water spray from any direction. Like its mju stablemates, the 810's LCD is positioned to allow as much room for essential controls as possible. A well-proportioned D-pad and mode dial are the main components of the camera's rear, and between them take care of most of the key functions.

### PERFORMANCE

In action the 810 is a nippy performer that springs to life with a delay of about a second. Focusing is similarly sure footed, and at the lens's widest setting the 810 locks almost instantaneously.

A single focusing mode and just two metering options mean there is limited flexibility for creative shooting, but the supplied selection of scene modes and optimised night-time performance mean that competent automatic snappers are able to generate accurate and attractive images.

### VALUE

As a package the mju is undoubtedly light on extensive creative shooting functions and therefore relies largely on its impressive 8MP CCD to earn its £330 suggested price tag. There is little aside from this extended resolution to enable the 810 to stand out from the crowd but, thanks to an impressive build quality and a high standard of production, the mju 810 manages to represent fair value for money.

### VERDICT

*Olympus has brought together all the most appealing aspects of its mju range and combined them in the 810 to create a high-resolution quality compact. Aside from a high maximum ISO, there is no particular stand-out feature, but the mju still manages to impress thanks to ease of use and a reliable, prompt shooting performance.* **WDC**

## quick *specs*

- **SENSOR** 1/1.8" (7.176 x 5.319mm), 8.3MP
- **LENS** 7.4-22.2mm (35-105mm equiv) f2.8-4.7
- **SHUTTER SPEEDS** 4 - 1/1000sec
- **EXPOSURE MODES** Program setting plus 20 scene modes, Mov
- **ISO** Auto 64-3200
- **FLASH** Auto plus 3 modes, max range 5.2m
- **VIEWFINDER** None
- **MONITOR** 2.5inch, 230,000 pixel LCD
- **OTHER** 640x480 @ 30 fps video, xD
- **POWER** Li-Ion cell
- **DIMENSIONS/WEIGHT** 97 x 56 x 22.7mm/ 145g

## what we *think*

**WHAT WE LIKE:**
An effortlessly compact and well-designed body style aids this compact's flexibility, while image quality holds up well in everyday shooting conditions

**WHAT WE DON'T LIKE:**
Low-light and close-up shooting conditions detract from overall image quality. The camera's standard specifications also fail to inspire

## the *scores*

| | |
|---|---|
| **FEATURES** Specifications, controls | 17 |
| **DESIGN** Build, handling, ease of use | 19 |
| **PERFORMANCE** Metering, focus etc | 17 |
| **IMAGE QUALITY** Sharpness, colour etc | 17 |
| **VALUE** Based on RRP | 15 |

**85%**

## up *against*

**FUJIFILM E900**

TURN TO OUR BUYING GUIDE ON PAGE 122 FOR INDIVIDUAL CAMERA SPECIFICATIONS

## image *quality*

In bright conditions, images are sharp, accurate and shine with a bright, full-bodied spectrum. In low-light scenes images often display edge softening and more noise. The 810 handles the needs of the everyday snapper, but at the extremes of the lens' focal range, quality dips noticeably.

Image edges are generally sharp when shot up close
• *Download this and other test images on the website*

YYePG Proudly Presents, Thx for Support

JESSOPS

# new HIGH PERFORMANCE DIGITAL CAMERAS

## Thinking of upgrading your digital camera?

**Why not have a look at Jessops selection of high performance digital cameras in store today**

### Olympus SP-700

JESSOPS EXCLUSIVE

HIGH PERFORMANCE DIGITAL CAMERA

- 6.0 megapixels
- Extra large 3.0" TFT LCD colour screen
- 3x optical zoom
- Long life Li-ion battery
- 11MB internal memory

HALF PRICE £199.99

HALF PRICE CASE £14.99*

RRP £399.99 Optional repair protection plan £25 *when bought with this camera. Normally £29.99

### Olympus Mju 700 Black

JESSOPS EXCLUSIVE

HIGH PERFORMANCE DIGITAL CAMERA

- 7.1 megapixels
- 2.5" LCD colour screen
- 3x optical zoom
- Long-life Li-ion battery
- Water resistant

ONLY £229.99

HALF PRICE CASE £14.99*

Optional repair protection plan £30 *when bought with this camera. Normally £29.99

### Nikon Coolpix P1 Black

JESSOPS EXCLUSIVE

HIGH PERFORMANCE DIGITAL CAMERA

Wi Fi CERTIFIED

- 8.0 megapixels
- 2.5" LCD colour screen
- 3.5x optical zoom
- Wi-Fi compatible
- In-camera red-eye fix

SAVE £80 £249.99

HALF PRICE CASE £9.99*

was ~~£329.99~~ Optional repair protection plan £35 *when bought with this camera. Normally £19.99

### Fujifilm Finepix E900

JESSOPS EXCLUSIVE

HIGH PERFORMANCE DIGITAL CAMERA

- 9.0 megapixels
- 2.0" LCD monitor
- 30.4x zoom (4x optical, 7.6x digital)
- Sensitivity 80 - 800 ISO
- Manual overrides
- Movie mode with sound

SAVE £70 £279.99

was ~~£349.99~~, then ~~£299.99~~ Optional repair protection plan £35

### Sony Cyber-shot T9 Black

JESSOPS EXCLUSIVE

HIGH PERFORMANCE DIGITAL CAMERA

- 6.0 megapixels
- 2.5" LCD colour screen
- 3x optical zoom
- Long life Li-ion battery
- Optical image stabiliser

ONLY £328.99

Optional repair protection plan £45

### Canon Ixus 750 Champagne

JESSOPS EXCLUSIVE

HIGH PERFORMANCE DIGITAL CAMERA

- 7.1 megapixels
- 2.5" Quick-bright LCD
- 12x zoom (3x optical zoom)
- Superb results with DIGIC II and iSAPS

SAVE £20 £329.99

~~£349.99~~

INCLUDES NECK CHAIN & LEATHER CASE

Optional repair protection plan £45

### All these cameras have these features:

**6 MEGAPIXELS OR ABOVE**
For sharper, clearer pictures and ideal for enlargements

**LARGE LCD SCREEN**
To view and share your photos on screen instantly

**3x OPTICAL ZOOM OR ABOVE**
Zoom in without any loss of picture quality

**STYLISH INNOVATIVE DESIGN**
The latest trendy look in digital cameras

**LATEST TECHNOLOGY LENS**
High quality lenses for sharper photos

**EXTENDED RECHARGEABLE BATTERY LIFE**
Longer battery life so you never miss that special shot

best photo retailer 2005 10TH YEAR RUNNING WINNER

best processor 2005 3RD YEAR RUNNING WINNER

AWARD-WINNING SERVICE

JESSOPS

YOUR PICTURES, OUR PASSION

WePG Proudly Presents, Thx for Support

Over **285** stores nationwide **CALL: 0845 458 7111** for your nearest store or visit **www.jessops.com**

Errors & omissions excepted. Goods subject to availability. Offers, prices, specifications and services are subject to change without prior notice and relate to mainland UK only. All prices include VAT. All offers cannot be used in conjunction with any other offers.

# FUJIFILM FINEPIX V10

**5 mega pixels** **5x zoom**

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

**back** view

The camera's dominated by that big 3in screen, leaving little room for fingers, or even buttons

**top** view

The shutter release, power, and Finepix buttons are on the top, as well as a zoom control

**side** view

The slim camera has its USB and DC ports here, as well as a lug for a wrist strap and button for switching between still and movie modes

## quick *specs*

- **SENSOR** 1/2.5" (5.75x4.29mm) Super CCD 5.1MP
- **LENS** 6.3-21.6mm (36-130mm) f/2.8-5.5
- **SHUTTER SPEEDS** 4-1/200sec
- **EXPOSURE MODES** Program AE, 6 Sc, Mov
- **ISO** Auto, 64-1600
- **FLASH** Built-in 0.3-4.4m
- **VIEWFINDER** No
- **MONITOR** 3in TFT 230,000 pixels
- **OTHER** USB 2.0, games, JPEG, xD
- **POWER** Li-Ion
- **DIMENSIONS/WEIGHT** 83 x 63.5 x 23mm/155g

## what we *think*

**WHAT WE LIKE:**
Good sensitivity range up to ISO 1600; compact and attractive looks might appeal to some

**WHAT WE DON'T LIKE:**
Lack of finger space due to large screen; fiddly buttons and controls; overprocessed images; AF performance

## the *scores*

| | |
|---|---|
| **FEATURES** Specifications, controls | 17 |
| **DESIGN** Build, handling, ease of use | 15 |
| **PERFORMANCE** Metering, focus etc | 14 |
| **IMAGE QUALITY** Sharpness, colour etc | 16 |
| **VALUE** Based on RRP | 15 |

**77%**

## up *against*

**SONY CYBERSHOT T5**

TURN TO OUR BUYING GUIDE ON PAGE 122 FOR INDIVIDUAL CAMERA SPECIFICATIONS

# Fujifilm V10

## Small and attractive with a 3inch LCD and games

**Tested by** *Jamie Harrison* **£250** www.fujifilm.co.uk

**This year is turning out to be a year of improvements on digicams rather than innovations. The Finepix V10 is a prime example, with a few special features that set it apart from the crowd.**

### FEATURES

All Fujifilm's cameras now use the company's Super CCD, with the octagonal pixels. The pixels work together with the Real Photo Processor to provide extended sensitivity up to ISO 1600. At present Fujifilm is one of the few companies to offer this degree of sensitivity. The higher speed means the camera can be used in lower light conditions. If you can't decide whether to use flash, Fujifilm has added a Flash on/off mode, which takes two pictures in succession, one with flash and one with the higher ISO. You can then choose your favourite. There's also a 3in LCD taking up most of the back; a bright mode enables viewing in bright sun. Another innovation is that Fujifilm has added arcade-style games, which can be used with the pictures on your card to make them more fun. Among these are a maze game, a puzzle, a blockbuster game and a space invaders-like shoot 'em up.

### DESIGN

The camera is small, square, attractive and easily pocketable. This is despite the large screen, and there's the trade off. The controls on the back are small and fiddly, running along the bottom of the screen, and not easy to use quickly especially when playing the games. Because the screen takes up all the camera's width it is also prone to fingerprints – your thumb has to rest on the LCD.

### PERFORMANCE

It's nice to have all the extras on a camera, but what matters is how easily you can take pictures. The AF is quite slow, and despite the high AF, misses the mark several times, especially in low light. Considering the camera is aimed more at the younger crowd, who are more likely to use it at parties and in clubs, this is a low point. It also has a fair degree of shutter lag, which is disappointing, and in a social situation, you want to be able to shoot quickly.

### VALUE

There are better cameras at this price. If the low light capability appeals, even Fujifilm has better models. And even a mobile phone has better games.

### VERDICT

*An interesting experiment, but the screen and design trade-off is a step too far, and the games fun but ultimately a gimmick. Performance and images are sacrificed too, which is inexcusable.* **WDC**

## image *quality*

Aside from focus issues, images are okay. Higher ISOs produce noisy images, which I'd expect, but it's not as bad as those from competitors, so well done Fujifilm. Even at lower sensitivity, though, images look slightly overprocessed and suffer from a seemingly too eager JPEG compression.

**Sharp detail in the intricacies but the bricks are fuzzy**
*• Download this and other test images on the website*

YYePG Proudly Presents, Thx for Support

# Outer protection for your inner vision.

Whether shooting the latest ad-campaign for a multi-national corporation or trekking to far-off corners of the planet to photograph disappearing ways of life, Eric Meola has spent decades creating some of the world's most recognizable images.

© Eric Meola www.ericmeola.com

SlingShot 200 AW

## Introducing SlingShot AW

- Ultimate ergonomic fit
- Designed for digital
- Unique quick access

Ergonomic sling strap distributes weight evenly as a backpack, but with the convenience of a shoulder bag; tuck-away stability strap holds the bag steady during active use.

The sling swivels the bag around to the front allowing easy access to camera and lenses without removing it from the shoulder.

Lowepro®

**Helpline: 0870 420 4211**
**Brochure line: 0870 420 4188**
**Quote Ref: LWD05**

**For complete specifications on all Lowepro products please visit:- www.lowepro.co.uk**

# NIKON COOLPIX S5

**6 mega pixels** **3 x zoom**

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

**back** view

The five-way controller looks like any other but it is a combined four-way button and control wheel

**top** view

Press the portrait button on the left hand side and portrait mode attempts to find the face in the scene

**side** view

The only thing to disfigure the otherwise perfectly smooth and shiny lines of the S5 is a camera strap lug

## quick *specs*

- **SENSOR** 1/2.5" (5.76x4.29mm) CCD, 6.18MP
- **LENS** 5.8-17.4mm (35-105mm) f/3.0-5.4
- **SHUTTER SPEEDS** 2-1/500sec
- **EXPOSURE MODES** P, four subject modes, 11 scene modes, Mov
- **ISO** Auto, 50, 100, 200, 400
- **FLASH** 0.3m-2.6m (W)/ 0.3m-1.4m (T)
- **VIEWFINDER** None
- **MONITOR** 2.5in TFT, 230,000 pixels
- **OTHER** SD/MMC, 21MB Internal, USB, 640x480 30fps movies
- **POWER** Lithium-ion
- **DIMENSIONS/WEIGHT** 93 x 59 x 20mm/135g

## what we *think*

**WHAT WE LIKE:**
Attractive design with sculpted lines; full specification; range of overrides; DLighting and Face Priority; exposures and colour very good

**WHAT WE DON'T LIKE:**
Prone to some camera shake owing to very thin size; bit of barrel distortion at wideangle; sluggish performance for moving subjects with slow AF and burst

## the *scores*

| | |
|---|---|
| **FEATURES** Specifications, controls | 17 |
| **DESIGN** Build, handling, ease of use | 18 |
| **PERFORMANCE** Metering, focus etc | 17 |
| **IMAGE QUALITY** Sharpness, colour etc | 17 |
| **VALUE** Based on RRP | 16 |

**85%**

## up *against*

**SONY CYBERSHOT T9**

TURN TO OUR BUYING GUIDE ON PAGE 122 FOR INDIVIDUAL CAMERA SPECIFICATIONS

# Nikon S5

## The latest of Nikon's super-slim compact digicams

**Tested by** *Joël Lacey* **£299** www.nikon.co.uk

**The Nikon Coolpix S5 is a 6MP 3x zoom camera that differs from the S6 in price and in that the S5 doesn't have wireless connectivity and has a 2.5inch rather than 3inch screen.**

### FEATURES

It does, however, have the DLighting in-camera exposure improvement system (seen on the 7900 and other Coolpix models), the exposure sophistication of a much heavier model, and the Pictmotion 'make your own video slideshow' system. There's the one-touch portrait mode selection which, at the press of a button on the top-plate toggles in or out of Portrait modes with face-priority focusing. There's also a range of scene modes and four subject modes. The face-priority is great in that it searches the frame for faces (like a sniper's cross-hairs) and finds them pretty accurately before focusing and exposing for them. The flash system includes anti-redeye mode and in-camera redeye reduction. The flash is a little underpowered.

### DESIGN

The Coolpix S5 is slim bordering on thin. The top-plate controls are tiny but surprisingly usable despite that. The backplate features a combined five-way controller and control wheel in a rather ingenious design. The big issue is where on earth to put your fingers. The right hand side has an inset space for the thumb to sit, but it's smaller than the tip of my little finger. In short, don't try to carry this thing while wearing gloves. It will fall if you do.

### PERFORMANCE

Focusing is good on stationary items, albeit a bit slothful if there is some movement. The exposures are by and large excellent, although an unwanted if eminently predictable silhouette resulted from shooting against the light. Colours are strong and saturated when required, soft and muted where appropriate. Where there was subject and or camera movement there was fringing, but image processing was rarely overdone and while the S5 is not meant to be a sports camera, there is still a bit too much of a pause for my liking in between shots.

### VALUE

With an SRP at £300, the Nikon S5 is competing with some excellent cameras. It's a well built and specified model that looks good, so for many people that would make it good value.

### VERDICT

*This is not a question of style over substance, but a bit more substance wouldn't go amiss. I'm not keen on the growing trend for smaller cameras with higher resolutions and bigger screens, but this one is above average for the genre.* **WDC**

## image *quality*

The image quality in good lighting with no subject or camera movement is very good. The DLighting does add a bit of pep to duller images but the incidence of images affected by camera shake is a bit worrying. Where images were good they were lovely, with splendid colours and detail.

**Image processing is subtle and rarely overdone**
*• Download this and other test images on the website*

YYePG Proudly Presents, Thx for Support

# Variable Sizes in One Album

Add, remove or reorganise your photos however you like!

DID YOU KNOW: OVER 61% of Digital Camera owners have lost images!

Ideal for • Traditional • • Inkjet • • Digital •

Size: 338mm H x 263mm W x 85mm D. Capacity: up to 70 Refill Pages

SAVE UP TO £39.90

F610 Black £19.95 F605 Burgundy £19.95

**Order any refill pages for £12 or more and Claim Either Leather Album Worth £19.95 FREE**

**Even better – order any refill pages for £20 or more and Claim any two albums FREE**

## Prevent your photos from fading!

Refills are made from POLYPROPYLENE (a chemically-inert acid-free material) to ensure long-term archival protection

After 20 years in an Arrowfile Album

After 10 years in an Ordinary Album

## Archival Organiser

The Album where you choose the pages from over 130 archival pocket refills

### *Don't just take our word for it...*

**PROTECT** *"I realised the significance of safeguarding my family photos when my computer crashed and I lost them all..."* Mr Federick

**ORGANISE** *"Thank you – At last an Album that allows me to Organise all Photo sizes and CDs in one single Album."* Mr Sloaner

**FLEXIBLE** *"I can print various sizes and still continue my collection with the same matching album set"* Ms Linken

**LEGACY** *"When it comes to passing treasured family memories to our grandchildren, we need not worry about computer upgrades."* Ms Edwards

**SPACE** *"Now I have loads of free shelf space thanks to Arrowfile"* Mr Patel

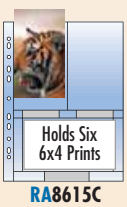
***...Need we say more?***

ARCHIVAL PHOTO SAFE USED BY MUSEUMS

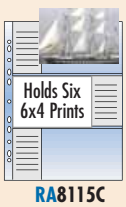
**10 pages (1 pack) from only £2.99**

**Choose your Arrowfile Crystal Clear Refill Sleeve Pages from below**

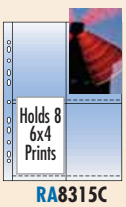
ARCHIVAL CD SAFE NO PVC




RA8615C




RA8115C




RA8315C

RA8340C

RA9790C

Also suitable for A4

RA7589C

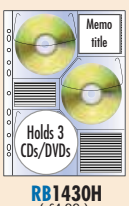
RA1520C

No adhesive required

Cling Magnetic Refills are ideal for varying digital print sizes

RA6001

RA1425C




RB1430H (£4.99)

Please ask operator for details of Memo Title Inserts

**www.arrowfile.com**

YYePG Proudly Presents, Thx for Support

**CALL OUR FREEFONE ORDER HOTLINE:**

**0800 027 5363**

## arrowfile

*Looking after all that you treasure*

or post to Arrowfile, FREEPOST LON12541, PO Box 88, Southampton SO14 0UA

| PRODUCT CODE | PRODUCT DESCRIPTION | ITEM PRICE | QTY | TOTAL |
|---|---|---|---|---|
| RA8115C | EXAMPLE 6x4" EXAMPLE | £2.99 | 2 | £5.98 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Postage & Packing UK Standard... ~~£4.95~~ £2.95 →

I have spent over £49... P&P FREE →

Optional Priority Express Service £5.00 →

TOTAL →

For Channel Islands, Scottish Isles and Highlands and Isle of Man locations only Parcal Force Charge up to £13. However, we will only ask for £5 on top of our standard delivery of £2.95 (totalling £7.95 for orders under £49. £5 for orders over £49 and FREE for orders over £59). For overseas orders please ring +44(0)2380 248707.

Photocopied form accepted

**My order is over £12, and I claim FREE as ticked :**

☐ One F605 Burgundy Leather Album or ☐ One F610 Black Leather Album

**My order is over £20, and I claim FREE:**

☐ Two F605 or ☐ Two F610 Albums or ☐ One F605 & One F610 Albums

Mr/Mrs/Miss/Ms

Address

Postcode

Tel: Date

Email:

☐ I enclose a cheque payable to **Arrowfile** for £ _____

OR please debit my ☐ Mastercard ☐ Visa ☐ Maestro

No: | | | | | | | | | | | | | | | | |

Expiry date | | | | Maestro issue no. | |

Signature .....

**ONE MONTH MONEY BACK GUARANTEE**

If for any reason you aren't happy with your purchase, send it back within 1 full month for a 100% refund. This does not affect your statutory rights.

NOT AVAILABLE IN THE SHOPS

PLEASE QUOTE THIS SPECIAL OFFER CODE WHEN ORDERING or ENTER IN YOUR BASKET IF ORDERING ONLINE. WD0506

Flash Foto Ltd T/A Arrowfile, 143-144 Churchill House, Stirling Way, WD6 2HP Reg No. 1561035

# PANASONIC LUMIX FX01

**6** mega pixels **3.6**x zoom

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

**back** view

Dominated by 2.5in LCD, but still has a reasonable clear space for your thumb. Buttons a bit small

**top** view

Mode wheel pokes out from the chrome top plate. Power and OIS buttons keep the shutter button (and zoom collar) company

**side** view

The USB and DC input sockets are hidden behind a chromed, hinged door. The LCD screen sits proud of the body. The SD card and Li-Ion battery share space under a flap on the bottom

WHAT DIGITAL CAMERA choice

# Panasonic FX01

## The world's smallest 28mm-equipped digital compact

**Tested by** *Nigel Atherton* **£249** www.panasonic.co.uk

## quick *specs*

- **SENSOR** 1/2.5" (5.76x4.29mm) CCD, 6.0MP
- **LENS** 4.6-16.8mm (28-102equiv) f/2.8-5.6
- **SHUTTER SPEEDS** 8-1/2000sec
- **EXPOSURE MODES** Program, 16 Sc, Mov
- **ISO** Auto, 80, 100, 200, 400, HIGH (800-1600)
- **FLASH** 0.6m-4m (Wide)
- **VIEWFINDER** None
- **MONITOR** 2.5in TFT, 207,000 pixels
- **OTHER** SD/MMC, Optical Image Stabiliser, Widescreen 30fps movie mode
- **POWER** Lithium-ion
- **DIMENSIONS/WEIGHT** 94 x 51 x 24mm/153g (with card and battery)

## what we *think*

**WHAT WE LIKE:**
Design and finish; build quality; speed of use; big and bright LCD; wideangle lens; image stabiliser; picture quality at ISO 100

**WHAT WE DON'T LIKE:**
Image quality at ISO 400; lack of manual exposure controls or enthusiast features; small buttons

## the *scores*

| | |
|---|---|
| **FEATURES** Specifications, controls | 17 |
| **DESIGN** Build, handling, ease of use | 19 |
| **PERFORMANCE** Metering, focus etc | 18 |
| **IMAGE QUALITY** Sharpness, colour etc | 18 |
| **VALUE** Based on RRP | 17 |

**89%**

## up *against*

**FUJIFILM F11**

TURN TO OUR BUYING GUIDE ON PAGE 122 FOR INDIVIDUAL CAMERA SPECIFICATIONS

**The latest in a long line of FX models, the FX01 looks, superficially almost identical to its award-winning predecessors, with a few extra curves here and there, but under that sleek and sexy exterior are some worthwhile new features.**

### FEATURES

The most useful of them is the Leica lens, which has been extended from its previous 35-105mm (equivalent) incarnation to 28-102mm – that's a jump from 3x to 3.6x, but more important it now has a useful wideangle. It's the world's smallest camera with a 28mm lens. Also new is a High Sensitivity mode for low light shooting at ISO 800-1600 at full resolution, and a 16:9 widescreen movie mode. Other headline features include the 2.5in LCD, Optical Image Stabiliser, and 6MP CCD.

### DESIGN

In their design, finish and build quality, Panasonic's compacts have few equals and the FX01 maintains the standard. Lustre finish metal panels front and back contrast with chrome on the top, bottom and sides and around the lens. Despite the large LCD and tiny body the FX01 doesn't suffer from the nowhere-to-rest-your-thumb syndrome of similar rivals, due in part to the zoom being on a collar around the shutter rather than a rocker on the back. The mode wheel and function buttons are stiff enough that they don't activate accidentally.

### PERFORMANCE

The FX01 maintains the range's reputation for very fast focusing and minimal shutter lag. Images clear the buffer quickly too, even in continuous mode – this isn't a camera that keeps you waiting. The LCD is not only big but bright, sharp, and quick to refresh (so there's almost no dragging as you pan). Zooming is swift but controllable. Battery life is above average. The ace, though, is that 28mm wideangle lens. It's surprising how often it comes in handy, and it's great that Panasonic has chopped barely anything off the telephoto end to provide it.

### VALUE

I'd say that £250 for a camera of this build quality, with a 6MP sensor, 28mm wideangle Leica lens and an image stabiliser is pretty good value.

### VERDICT

*The FX01 is a gorgeous camera to look at and to use, and the results don't disappoint either, except in low light, where Panasonic's Achilles heel, its noisy sensor, makes its presence known at the higher ISOs.* **WDC**

## image *quality*

In good light, images are excellent. Sharp, detailed, barely a trace of vignetting or fringing, and no more barrel distortion at 28mm than you get with other cameras at 35mm. High Sensitivity mode (which keeps the full 6MP resolution) is pretty ropey, but you'd only use that in situations where you'd otherwise get no picture at all. Exposures are mostly perfect, colour is excellent and the auto white balance needs fine tuning only in low tungsten light, when pictures can go a bit orange.

Exposure and colour were perfect most of the time
• *Download this and other test images on the website*

YYePG Proudly Presents, Thx for Support

# the biggest brands at low low prices

PORTRAIT AND LANDSCAPE MODE

customer comments

" really cool kit "
Kim 9/11/05

" intense and vibrant images "
Paul 12/11/05

" controls took just a minute to learn "
Kim 9/11/05

## Philips Digital Photo Frame

**£149.98** inc vat
(£127.65 ex vat)

quicklinx 3VFJDC

customer rating ★★★★★

- Don't hide treasured memories on your PC. Display 50 or more full screen, print quality photos in this 7" digital photo frame instead!

## dabs.com has everything the digital photographer needs

## Visit our website for the very latest deals

NEW DEALS EVERY DAY!

For market beating camera, camcorder and accessory deals that move too quickly to list in our ad, check out our website at www.dabs.com But hurry, when deals are gone – they're gone!

Canon
SONY
OLYMPUS
Kodak
Nikon
FUJIFILM
SAMSUNG
hp invent
JVC
Panasonic

Cameras

Camcorders

Photo Printers

Storage

Accessories

...and everything else for your PC!

NEW LOW PRICE

- Print a 4x6 photo in as fast as 14 seconds, or everyday documents at blazing speeds up to 32 ppm black text, up to 31 ppm colour text
- Easily preview, select, edit and print photos or video directly from memory cards using the 2.5-inch flip-up colour image display
- Print directly from PictBridge-enabled cameras

**FREE** MemoryBook Worth £19.99

snapfish

- A special keepsake in a hard cloth cover

## HP Photosmart 8250 Printer

**£99.00** inc vat (£84.26 ex vat)

quicklinx 3RFDDC

NEW

- 6.0 Megapixel
- 3.0" LCD
- Movie mode
- 3x optical zoom

6.0 MP

## Canon Ixus 65 Digital Camera

**£249.47** inc vat (£212.32 ex vat)

quicklinx 3ZTSDC

8.0 MP

- 8.0 Megapixel
- 3 fps, 14 frame burst
- 7 auto focus points

buy now pay later

## Canon EOS 350D Digital SLR with EF-S 18-55 Lens

**£499.99** inc vat (£425.53 ex vat)

customer rating ★★★★½

quicklinx 3MHYDC

- 6.3 Megapixel
- 2.5" LCD
- Movie mode
- 3x optical zoom

6.3 MP

## Fujifilm FinePix F11 Digital Camera

**£215.29** inc vat (£183.23 ex vat)

quicklinx 3YGXDC

customer rating ★★★★★

- 9.0 Megapixel
- 1.8" LCD
- Movie mode
- 28-300 zoom lens

9.0 MP

## Fujifilm FinePix 9500 Digital Camera

**£375.00** inc vat (£319.15 ex vat)

quicklinx 3TC8DC

customer rating ★★★★★

where people in the know go

YYePG Proudly Presents, Thx for Support

dabs.com

# RICOH CAPLIO R4

**5** mega pixels **3**x zoom

**360° VIRTUAL TOUR & TEST IMAGES ONLY ON THE WEB**
www.whatdigitalcamera.com

**back** view

The R4 doesn't offer any design breakthroughs, but offers clear controls and a decent LCD

**top** view

The lens demands a slightly thicker body than some recent cameras

**side** view

Unprotected AV and USB ports sit alongside the speaker/mic and wrist strap lug

WHAT DIGITAL CAMERA choice

# Ricoh R4

## The nippy R4 sports a giant zoom lens

**Tested by** *Jamie Harrison* **£250** www.ricoh.co.uk

**Ricoh has carved a niche for itself by offering something a bit different. The company has often impressed us with its unique features, innovative outlook and optical excellence even if some of the cameras don't match that promise.**

### FEATURES

The Caplio R4's standout feature is the 7.1x optical lens, first seen on its sibling the R3. The lens equates to 28-200mm, a favourite for SLR users wishing to cut down on their photographic luggage. This is supported with image stabilisation via a moving CCD, similar to the old Konica Minolta system. If that doesn't impress, the camera also has a 6MP 1/2.5in CCD, along with a 2.5in LCD with 150,000 pixels, the two main differentials between this one and the R3. Ricoh also claims a longer battery life, up to 330 shots between recharging, although these claims always depend on the amount you may use the flash or LCD. Even so, it's respectable. The R4 incorporates many of Ricoh's other well-known features, including 1cm macro, fast start up, minimal shutter lag and the reasonably new skew correction, for fixing diverging parallels in photos.

### DESIGN

Traditional users will appreciate the conventional design, while the full metal jacket shows that this is one of Ricoh's more illustrious models. On the downside there's no optical viewfinder, always a victim of ever-increasing screen sizes. The back of the camera is where the action is, with a sensible button layout and easily placed controls. The top-plate has the power, shutter release and image stabiliser controls. The menus are pretty straightforward, and an ADJ (adjust) button allows fast changing of common controls such as White Balance, ISO and exposure compensation. There's little to criticise on the handling side.

### PERFORMANCE

Start up is fast, the shutter delay is short and everything is where it should be. The R4 lacks the manual control of some of its rivals, but it has nice touches such as timed exposures up to eight seconds, a low ISO start of 64, rising to 800, and it is easy to hold.

### VALUE

At £250 for a 6MP camera with a long zoom, high sensitivity and image stabilisation, all in a metal shell, there's little to moan about.

### VERDICT

*Ricoh has produced a nice camera that performs well, offers something different and doesn't hit the pocket too hard. That's got to make it a winner in my eyes.* **WDC**

## quick *specs*

- **SENSOR** 1/2.5" (5.75x4.29mm) 6.04MP eff
- **LENS** 4.6-33mm (28-200 equiv) f/3.3-4.8
- **SHUTTER SPEEDS** 1/30-1/2000sec
- **EXPOSURE MODES** Program AE, 6 Sc, Mov
- **ISO** Auto, 64-800
- **FLASH** Built-in
- **VIEWFINDER** No
- **MONITOR** 2.5in LCD, 153,000 pixels
- **OTHER** SD, Image Stabilisation, USB
- **POWER** Li-Ion
- **DIMENSIONS/WEIGHT** 95x26x53mm/135g

## what we *think*

**WHAT WE LIKE:**
Price; the 28-200mm lens is extremely useful; image stabilisation; macro mode; build quality

**WHAT WE DON'T LIKE:**
No optical viewfinder; some fringing; noise at higher ISOs

## the *scores*

| | | |
|---|---|---|
| **FEATURES** | Specifications, controls | 18 |
| **DESIGN** | Build, handling, ease of use | 17 |
| **PERFORMANCE** | Metering, focus etc | 18 |
| **IMAGE QUALITY** | Sharpness, colour etc | 16 |
| **VALUE** | Based on RRP | 19 |

**88%**

## image *quality*

Image noise up to ISO 200 is more than acceptable; at ISO 400 it becomes more obvious and by ISO 800 it is intrusive, but better than earlier models. The image stabilisation works too. The only negative is a bit of fringing in high-contrast areas and towards the corners of the frame.

The R4 produces good exposures and pleasing colour
• *Download this and other test images on the website*

## up *against*

**OLYMPUS SP 500UZ**

TURN TO OUR BUYING GUIDE ON PAGE 122 FOR INDIVIDUAL CAMERA SPECIFICATIONS

YYePG Proudly Presents, Thx for Support

# A bunch of Tossers

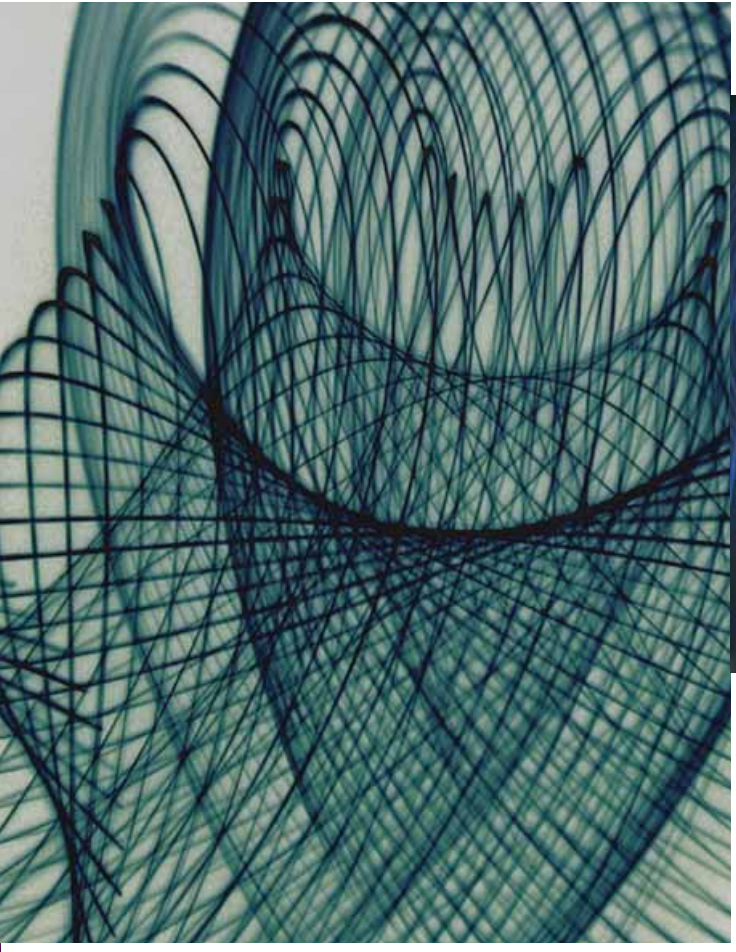
## They hurl their cameras with gay abandon and record the results. **Gavin Stoker** meets the men behind this latest craze

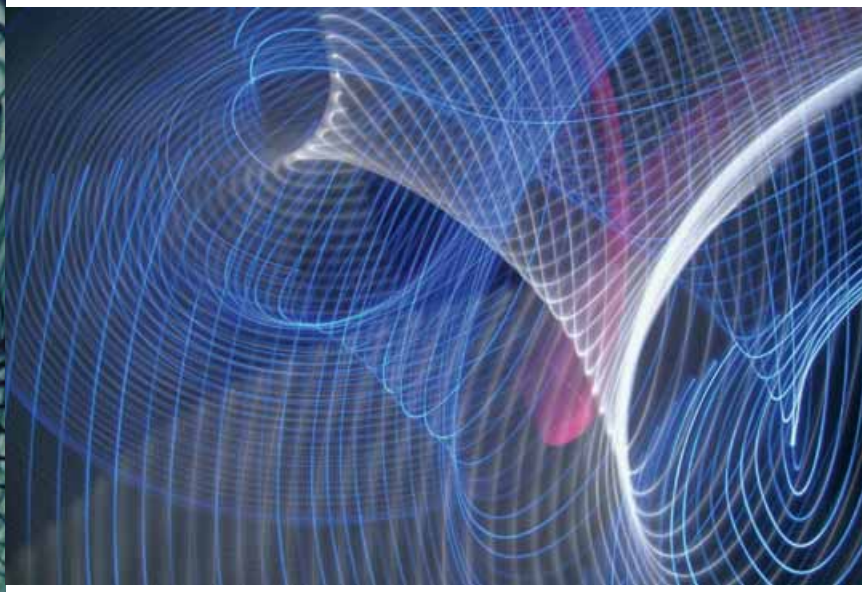
**WDC readers may well be aware of adventurous photographers attaching their camera to a helium balloon or remote-controlled aerial device to generate dynamic camera angles and achieve abstract effects beyond those possible in Photoshop. But tossing your expensive kit in the air and catching it? Surely that's madness.**

Unafraid to label himself a 'tosser' is 29-year-old Texan Ryan Gallagher, who set up the Camera Toss website last August, and at the time of interview had been invited to exhibit his resultant photographs of complex and beautiful light patterns in Hamburg, Germany, with a second show planned in Berlin. Impressive stuff for a simple idea dreamt up by a

YYaPG Proudly Presents. Thx for Support

**Left:** WDC's Jamie Harrison tries his hand at tossing





**Left, far left and below:** Images by Ryan Gallagher
**Above:** Image by Thomas Lewis

hobbyist, who admits the reaction has been 'a bit surprising', though there is a thread: Gallagher's background is in theatrical lighting and software.

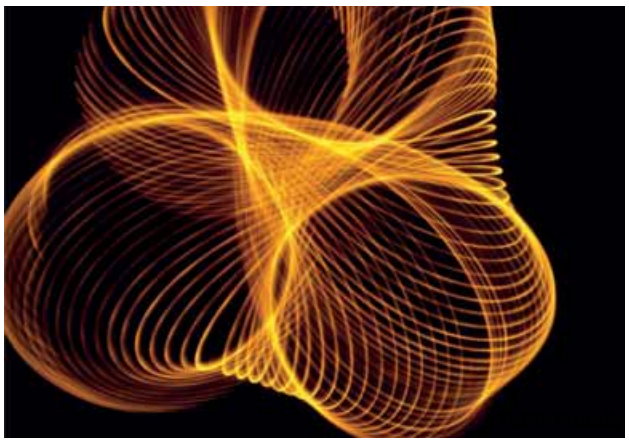
One of Gallagher's friends, posting on the site, recalls the moment when camera tossing was born:

'I was up late one night [with Ryan] at one of the usual coffee hangouts. The emergency services showed up, so we decided to head outside to play with the new light sources. [Ryan] had recently become frustrated with the limitations of one of his older digital cameras. So he decided to try a different way to compose a shot, and tossed his camera in the air. Since then, I've seen him go from casual tosser to experienced artist.'

Described by fellow camera chuckers as 'the biggest thing to hit photography since going digital', Gallagher's pioneering tosses have attracted interest from TV stations as far flung as India, and even from The Times newspaper, whose picture editor churlishly suggested he 'get a life'.

'There is a school of photography, grounded in photojournalism, that absolutely detests it,' notes Gallagher, who takes any detractors' comments as compliments. 'They claim photography should document something. To this I say: what is wrong with documenting motion itself?'

Appealing to those with a sense of fun, perhaps it's no surprise that the Camera Toss community at flickr.com – a portal of Yahoo – numbers well over a thousand members. Their images, which show dazzlingly hypnotic arcs, loops and streaks of light that sometimes surreally suggest real-world shapes – including, memorably, that of a foetus – are all the more surprising given the random nature of the way they're captured.



How it works is like this: first, you need to find an attractive light source. Those on the forum suggest that neon lights are the best. Second, set your digital camera's shutter speed for a long exposure: say, a second or two. If your camera won't allow this, try deactivating the flash. Gallagher also suggests pointing a fully auto camera at a black or very dark subject at the beginning of the toss, in order to 'fool' the camera into a longer exposure. Next, toss your camera into the air – preferably with a spinning motion if you can manage it. Last, don't forget to catch it in the excitement.

As the craze has spread, it appears that fellow 'tossers' are getting more ambitious with their own photographic flights of fancy. Postings on the discussion board suggest that 'tossing' has gone beyond just flinging old point-and-shoots, to the likes of the EOS 20D DSLR; one member noting 'they must have been pretty safe about the environment they chose'.

The downside with DSLRs, besides their value, is that they're big and heavy, making a catch difficult. 'You end up smudging your fingers over the lens,' posts a brave EOS D30 tosser.

Another forum regular known as 'Nod' – Thomas Lewis to his friends – has this to say about his attempts with a Canon EOS 10D: 'Obviously the 10D gives you more control over the settings than you get on a point and shoot and there's a certain rush of adrenaline that isn't quite the same with a cheaper camera.'

**The Camera Toss community at flickr.com numbers well over a thousand members**

Despite the benefit of manual features on the EOS, Lewis recently bought a Nikon 3700 and Pentax Optio WR33 on eBay for less risky tossing. 'The smaller cameras make it easy to put the required spin on the camera, which is the main thing,' he explains. 'And they tend to give vivid results straight out of the camera, which is great as I don't like doing too much editing.'

Gallagher notes that digital cameras have contributed greatly to the rapid spread of the camera-tossing craze. 'It costs nothing to try, provided that you catch the equipment,' he says, 'and the immediate viewing via the LCD is helpful, as it provides feedback that can be used to hone your technique in real-time.'

## PAINTING WITH LIGHT

Having viewed the hundreds of JPEGs online and witnessed the obvious fun and enthusiasm, there's one question needs to be asked: can you become addicted to tossing? 'Most definitely,'

Presents, Thx for Support

**Above:** By Ryan Gallagher
**Left:** By Thomas Lewis

replies colourfully named forum regular 'FlyButtafly'. 'Part of the addiction comes down to the fact that you have to toss the camera many times to get a result you like, and you never get the same twice. The light patterns can be mesmerising and the possibilities are endless.'

Camera Toss founder Gallagher agrees. 'So many people have digital cameras these days... the urge to just try it was apparently quite overwhelming,' he says. 'I was astounded by the results.

## 'My poor Canon PowerShot has been damaged. I'm a clumsy catcher'

I love abstract painting with light, but every other camera movement/blur shot I've seen involves light sources either spinning together, or moving in a linear fashion.'

The random nature of camera tossing is guaranteed to produce unique results, occasionally quite breathtaking. Apparently, cameras that display noticeable shutter lag are some of the best for making toss images.

'I like that in many of them you can almost "feel" the way the camera was turning,' Gallagher enthuses. 'Seeing the same light tracer moving across the frame in different places with variation in direction and position provides neat hints as to how the camera spun or didn't spin. I love the textures and directional layers you can get.'

But it's surely also because you don't need a camera that is any more advanced than a cheap point and shoot – the seldom-reviewed likes of the Logitech Pocket Digital or Vivitar Vivicam are mentioned online – that the idea has caught the public imagination. As one college student acknowledges: 'Being at art school does kind of push you in the direction of high-end cameras and with very little room to move around. Seeing something incredibly beautiful done with something as simple as a point-and-shoot camera really gave me hope.'

However there are some pitfalls. 'My poor old Canon PowerShot has been damaged,' claims one posting. 'I'm a clumsy catcher. But still tossing and turning.' Apart from accidentally smashing your camera to bits, Gallagher notes that catching it can also be a jolt to the equipment and many models exhibit shut-down problems because the batteries lose contact momentarily on impact.

So if you're not so brave, there's always the option to keep hold of the camera strap while spinning around, on the wrist if you like – though purists claim that while this is 'kinetic photography', it is not a true toss.

As for which cameras are best for tossing, Gallagher advises that those with even weight distribution and a centrally positioned lens result in a tight 'blurring radius', whereas a camera with a lens positioned more to one side will increase the arc of capture.

Why not try your own camera toss experiments? You might get strange looks, but with results such as these it's got to be worth a toss.

Find out more by visiting *www.cameratoss.blogspot.com* or *www.kineticphotography.net*

A stunning portfolio called 'Best of Toss' can also be found at: *www.flickr.com/photos/clickykbd/sets/1133991/*

**• GIVE A TOSS! Send your own camera tossing shots to us at wdc@ipcmedia.com and we'll publish the best ones.**

## TOP 5 TOSSING TIPS

**PRACTISE CATCHING**
Develop your catching ability and/or find a cheap digital camera; one that you won't shed too many tears over should you be cursed by butterfingers.

**LIGHT IT UP**
Find a good light source, preferably when it's dark. Neon lights are among the best for stunning patterns.

**LONG EXPOSURE**
Before you toss it, set your digital camera to a long exposure, turn off the flash, or fool it into a long exposure by pointing it at a dark object.

**BIT OF SPIN**
Throw your camera airwards – up to six foot – with just a little spin. Experiment until you're pleased with the results displayed on your camera's LCD.

**GET TO KNOW THE VARIABLES**
If at first you don't succeed, toss, and toss again. 'Over time you'll start to recognise the variables and begin to have more influence on the results,' says Ryan Gallagher.

gYePG Proudly Presents, Thx for Support

# WIN! A holiday for two to Paris with LightScribe

You've just created a fantastic portfolio – now personalise it and add your own unique style, by making the disk label with LightScribe. LightScribe is the no-hassle way of creating amazing looking images on your CDs and DVDs. Simply burn your data – perhaps an album of photos from Paris – flip the disk over, and burn your label. Express your creativity with your own text, photos or something you have designed, to produce a label that will really stand out. No more messy markers or sticky labels!

LightScribe is offering you the chance to win a holiday for two to Paris with three nights' stay in a luxury hotel as well as a LightScribe drive and LightScribe media. Staying in the heart of one of the world's most glamorous cities, you'll have the perfect setting to add to your photo collection and everything you need to create your own beautifully labelled photo compilation.

Five runners up will win a LightScribe drive with LightScribe media.

## ABOUT LIGHTSCRIBE

**LightScribe is an innovative technology that uses a special disk drive, special media, and label-making software to burn labels directly onto CDs and DVDs. Because the labels are laser-etched – not printed – there's no ink, no smudging, and no peeling. Your labels can be whatever you want them to be. Create one-of-a-kind designs with your own photos, text, and artwork using your label-making software. Or choose from the many free backgrounds the software provides. You may also visit LightScribe's label gallery for free downloadable designs. For more information visit www.lightscribe.com**

**HOW TO ENTER** To enter, simply answer the question below by visiting **www.whatdigitalcamera.com/competitions** or send your completed entry form to: What Digital Camera/LightScribe competition, IPC Media, Room 0417 King's Reach Tower, Stamford Street, London, SE1 9LS. Closing date for this competition is 19 May 2006.

**QUESTION:** What system does LightScribe use to label disks?
A: Laser etching B: Ink printing **ANSWER:** _____

**Mr/Mrs/Miss/Ms:** _____
**Name:** _____
**Address:** _____

_____ **Postcode:** _____
**Daytime telephone number:** _____

What Digital Camera, published by IPC Media (IPC), will collect your personal information to process your entry. IPC would like to contact you by post or telephone to promote and ask your opinion on our products and services. Tick here if you prefer not to hear from IPC ☐
IPC occasionally pass your details to carefully selected organisations so they can contact you by telephone or post with regards to promoting and researching their products and services. Tick here if you prefer not to be contacted ☐

This competition is open to residents of the UK only. The prize includes three nights B+B at a 3* hotel and travel to Paris and must be taken any time before August 2006. The first six correct entries chosen at random will win. One entry per person. Entrants must be aged 18 or over. Employees of IPC, Time Warner and LightScribe may not enter. LightScribe reserves the right to offer a prize of similar or greater value if the stated prizes are unavailable. The judge's decision is final and no correspondence may be entered into. If you would like to receive e-mails from What Digital Camera containing news, special offers and product and service information and take part in research, please write your e-mail address below.

Email _____

YYePG Proudly Presents, Thx for Support

# Check out the UK's best value domains & hosting!

## Domain Registration

from **£2.59** per year

It's never been easier or cheaper to have your own domain name! 123-reg delivers a totally automated service with the best value on the Internet.

Price per year inclusive of all fees

| | |
|---|---|
| .co.uk /.org.uk / .me.uk | £2.59 |
| .com /.net /.org / .info /.biz /.name | £8.99 |
| .tv/.cc | £30.95 |

Some domains are payable 2-yearly, visit 123-reg.co.uk for more info.

Bulk Discounts available for multiple domains.

## Website Build

from **£4.20** per month*

Quickly create a great looking web site online with 123-reg Site Builder - it's easy! The 123-reg Site Builder is a revolutionary product that leaves you with no excuse not to have your own high quality web presence, hosted by the UK's biggest hosting company.

## Shared Hosting

from **£1.59** per month†

There's no better place to host your site! Our 123-reg hosting packages are fantastic value for money. They are all feature rich and include at least 100MB of webspace, masses of mail boxes, free webmail and Webalizer graphical web stats. Professional web hosting has never been so affordable.

## Dedicated Servers NEW!

from **£39.99** per month

Now you can have your own dedicated server at a fraction of the price you would traditionally expect to pay. Benefit from the ability to host an unlimited number of websites, domain names and mailboxes. Your own server comes with unmetered bandwidth, simple control panel and no minimum contract.

## Blogs NEW! FREE 30 DAY TRIAL

from **£3.99** per month

The most intuitive blogging program available! No HTML to learn and nothing to install. Everything you need to publish online quickly and easily - whether you want to share pictures, videos, documents, or just your opinions. From first time bloggers to experts!

.eu domains NEW! PRE-REGISTER NOW!

**Transfer your .uk domain name for FREE**
Or transfer your .com, .net, .org domain for **half price**, now only £9.99

123-reg.co.uk

* Monthly equivalent, paid annually.
† A one-off set-up fee applies.
We welcome all major credit cards.
Prices exclude VAT @ 17.5%.
123-reg.co.uk is part of the PIPEX Group

YYePG Proudly Presents, Thx for Support

For all your domain and web hosting solutions visit: **www.123-reg.co.uk**

**SONY ERICSSON W900** p46
**LOWEPRO COMPUDAYPACK** p47
**HOODMAN LCD CAP** p48
**EPSON V700 SCANNER** p48
**COMPACTFLASH CARDS ROUNDUP** p49

# ACCESSORIES *software & hardware*

We test the latest kit to improve your photography

# HP *Photosmart Pro B9180*

## Vincent Oliver reviews HP's new pigment-based A3+ printer, the B9180

**SPECIFICATIONS:** USB 2 and Ethernet 802.3 connections. **INKS:** Eight Vivera pigment waterproof inks: Matte Black, Photo Black, Light Grey, Cyan, Magenta, Yellow, Light Magenta and Light Cyan. Four ink cartrides containing 2 inksets

**£499**

**www.hp.com**

HP has just announced its first pigment-based A3+ printer, the HP Photosmart Pro B9180. The printer is built like a tank and will suit a professional studio photographer as well as the serious hobbyist and fine art photographer.

The HP B9180 uses four replaceable print heads. Each print head handles two colours and can be easily replaced at any time. The printer boasts eight colours, and two of the inks are Photo black and Matte black, which are switched automatically depending on the media type selected. The eight ink cartridges, which each hold 28ml of ink, are stored in a compartment at the front of the printer.

Paper is front loaded via a heavy duty paper tray, which accommodates media sizes from 10 x 15cm to A3 and envelopes. As with most HP printers the media passes through a U-bend feed system. There is also a straight paper path directly above the paper input tray, which supports media with a thickness of up to 11.5 mil. Prints are delivered onto an extendable output tray.

A very simple to use control panel is on the front, whch gives the following options: Print a test page, Print a sample page (using a HP image), Network settings, Clean printheads, Align printheads, and Calibrate printer. This last option automatically adjusts the printer's colours to match the media type. Finally there's a graphic and numerical display to show you how much ink is left in each cartridge.

The printer installation includes an Adobe Photoshop plug-in. This is accessed in Photoshop via **File > Automate > HP Pro Print**. The user can now set all the printer options, colour management, media type and other settings from this central dialogue box.

This printer is easy to set up; you don't have to wade through a thick manual first. I had reservations about a U-bend feed system, as I have always used rear gravity feed printers. However, using this printer made me quickly realise some of the less obvious advantages, namely the media is well protected against dust and other objects falling into the rear of the printer. In the five months I have been using this printer I have not had any paper jams.

> 'This is only a beta version but the quality of printing is outstanding'

**VERDICT**

**Though the printer we have here is a beta version and still needs the Windows drivers to be tweaked, the quality of printing so far is outstanding, especially on a Mac. I'm sure the final retail version will give other manufacturers something to worry about. WDC**

**the *scores***

**93%**

**18** features
**18** ease of use
**19** performance
**19** results
**19** value

**WHAT WE *LIKE:***
Build; 200 years life of prints (claimed); replaceable print heads; separate ink cartridges

**WHAT WE *DON'T LIKE:***
The large physical size (w 25.3in, h 8in, d 15.7in); maximum media length of 19ins

YEPG Proudly Presents, Thx for Support

## Visible Dust Economy 1.6x

**£65**

**www.warehouseexpress.com**

Visible Dust brushes let you clean dust on your DSLR sensors. The kit we tested included a sensor brush and fanned brush. Visible Dust's website (**www.visibledust.com**) goes into great detail on how to safely clean the sensor. The brushes work in conjunction with compressed air to charge them. The filaments attract dust as you gently brush, so reducing any danger of scratching the sensor. The second brush can be used to clean the chamber. It's not cheap, but it works, and over time may be cheaper than sending your camera away or replacing it. **85%**

## SanDisk Ultra II Plus USB SD

**£50**

**www.sandisk.com**

It's time to get rid of your card reader and stop carrying cables around. The SanDisk Plus cards connect directly to a USB socket thanks to a fold-out plug. Ideal for laptops, or showing pictures on a friend's PC. And it offers the same performance as a regular Ultra II SD card. **85%**

# Sony Ericsson *W900*

## A 2MP mobile phone with autofocus and digital controls

**TYPE:** Camera Phone **£SUBJECT TO CONTRACT** **www.sonyericsson.co.uk**

Mobile phones are ubiquitous, and almost all of them has a camera built in these days. So WDC is taking more than a passing interest. We don't expect much in the way of quality compared to a dedicated camera, but anything that allows us to take pictures and encourages others to take more pictures, is a good thing.

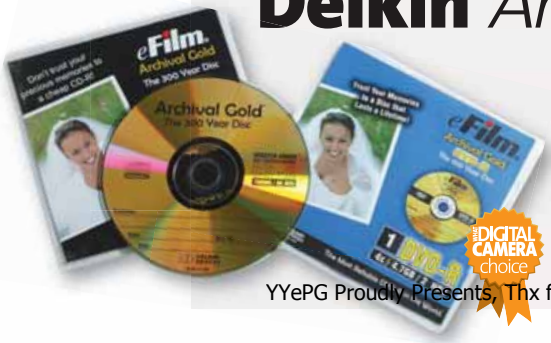
The W900 from Sony Ericsson is more than just a cameraphone though, so we'll run through a few of its other features first. First, it's a phone, with 3G, GPRS and GSM capability. That means you can video call, make normal calls, surf the net, send texts, emails and picture messages.

It's also a Walkman, with a built-in MP3 player and 470MB worth of storage, enough for a few albums, or a few pictures or video.

As with most mobiles, there's also the calendar functionality, games, calculator and so on. In short, it does pretty much everything an iPod, a PDA and a phone can do. And a camera. In fact the camera specs aren't too shabby, with 2 megapixels and autofocus. Unlike some of the low-end camera phones of up to about 1.3MP, the W900 has a built-in flash and digital controls, including exposure compensation, spot metering, night shooting mode and white balance control. There's even a more powerful flash to add on the USB/power socket, though it's not that much more powerful.

The camera is a spin-out type – that is, it's in two parts, with the keypad in the bottom section, and the camera, LCD and controllers in the top pad. Pushing the top section on the side forces it to spin out into a regular phone position. The camera is used in the closed position. I find the spin system a pain to use, and half the time the phone ends up upside down. You have to try it, to understand what I mean. But the buttons are nice to use and large enough for my giant

# Delkin *Archival Gold Disks*




## Long-lasting disks

**£TBA** **www.delkin.com**

There's been much talk recently of the archival life of CDs and DVDs, as well as the ever-changing technology of optical disks in general. One point is the accessibility of the media as formats change; well nothing is future proof and I can't guarantee that future PCs will accept CDs and DVDs. The other worry is that the dyes in the disk coating break down and make the disks unreadable. Delkin claims to have

YYePG Proudly Presents, Thx for Support

'The Sony W900's LCD is one of the best I've seen yet on a phone'

digits. The Walkman sound isn't bad, as you'd expect from a Sony. And the LCD is one of the best I've seen yet on a phone.

Image quality is okay, but I'm not giving up my Nokia N90 just yet. They're better than most cameraphones, but still have a grid-like grain, rather like cheap digital cameras of a few years ago. The problem is the small lens/sensor combination. For small images it's fine, but try to enlarge them past around 3 1/2 x 5in and you'll see some problems. Similarly, the dynamic range struggles with anything more than a small contrast range, blowing some details out to a sketchy cartoon.

**VERDICT**

**A good all round gadget, but fails to match the quality of dedicated devices. Nikon and Canon needn't worry... yet.**

**WHAT WE *LIKE:***
LCD, extra features, add-on flash

**WHAT WE *DON'T LIKE:***
Flip-round design, noise

**the *scores***

**18** features
**17** ease of use
**14** performance
**15** design
**16** value

**80%**

overcome this by incorporating Gold into the dyes and claiming a lifespan of 100 years for DVD and 300 years for CD.

The new disks also incorporate 'Scratch Armor' to protect the delicate underside of the disk. I mishandled my review disks and they still seem OK, so I can verify that – although a compass point gouged across the disk caused problems. As for the longevity, I'm happy to take their word for it and sleep slightly easier at night, but come back in 2306 for the conclusive report. **85%**

# Lowepro *CompuDayPack*

## An all-round bag for your photo kit and computer

**£80**
**www.lowepro.com**

Lowepro's (fairly) colourful new CompuDayPack is designed to carry a small SLR system, a laptop and anything else you might need on a day's shoot, such as your lunch or paperwork.

Divided into three sections – camera, computer and other – the bag is comfortable and well made, with good lumbar support and even weight distribution. The main compartment has pockets for cables and pens and so on, while a front pocket will hold an iPod and has a rubberised headphone hole.

The bottom of the bag is where the photographic gear is held, and this section is hinged to prevent spills and tips. There are six padded compartments, which can be customised to suit your kit. Alternatively, the whole section can be removed and the compartment used for something else, should you ever need extra space and don't need your camera.

This is a good all-round bag but it lacks some features such as a tripod holder and bungee cords; though obviously Lowepro do other types of bag if you need more features.

It's nice to see Lowepro break with tradition and add a splash of colour (red, green, or silver), making the bag quite stylish and urban, without having the knowingly funky look of some other bags. **87%**

YYePG Proudly Presents, Thx for Support

## Hoodman Flip-up LCD Cap

**£18**

**www.hoodmanusa.com**

Have you ever gone out in the summer and seen photographers with their heads under their jackets trying to review the images on the LCD monitors of their cameras in bright sunlight? You may well have done it yourself. I don't think it's that far a leap to the old days of the view cameras and black cloths of the 19th century. The Hoodman LCD hood is a simple and effective solution.

Available for several SLR models, the flip-up hood attaches to the rubber protector groove of the viewfinder, getting rid of the need for the glue or Velcro of similar systems.

The three-part folding hood shades the LCD from sunlight and folds down easily in order to allow you to use the viewfinder. In addition, the hood protects the LCD from nose grease, scratches and other dangers.

Like I said, it is simple and effective. **88%**

'A new feature is a set of film height adjusters'

# Epson Perfection *V700 Photo*

**£399** www.epson.co.uk

## Vincent Oliver tests a professional-quality scanner

**TYPE:** 4800ppi optical resolution (reflective), 6400ppi optical resolution (film) **REQUIREMENTS:** USB 2.0 and Firewire (IEEE 1394) ports **OTHER:** All film formats supported up to 10x8in, Digital ICE; 4.0 Dmax

The V700 scanner has a dual lens system: a 4800ppi lens for all the reflective scanning and large-format film up to 10x8in, and a second lens for high-quality film scanning with an optical resolution of 6400ppi. In our test the lens performed at its best in the 3200 to 4800ppi range. The 6400ppi setting generated large files and didn't offer much better image quality. The lenses automatically switch when you select the document type in EpsonScan.

The scanner has five film holders: 12 mounted 35mm slides, four strips of 6 exposure 35mm film, two strips of 120 film (6x20cm), two sheets of 5x4in and a film area guide for 10x8in or other film sizes. Generally the build quality of the film holders is very good but, as this scanner is aimed at the semi-professional user, I would have liked a sturdier construction. A new feature is a set of Film Height adjusters, small feet fitted on the reverse side of each holder.

There are three settings (2.5mm, 3mm and 3.5mm) that set the height of the holders above the lens, or a crude zone-focusing system. There was a marked difference in scan sharpness at each height. For 35mm slides the best setting is 3.5mm (3mm is the default).

The V700 comes with software including Adobe Photoshop Elements 3 (Mac & Win), SilverFast SE, EpsonScan, Abbyy Fine Reader (OCR software) and a selection of small Epson applications.

**VERDICT**

***The V700's superb scan quality equals that of many dedicated film scanners, and often surpasses them.***

**the *scores***

**92%**

**18** features
**18** ease of use
**19** performance
**19** design
**18** value

**WHAT WE *LIKE:***
Multiple film format scanning; build; price; bundled software

**WHAT WE *DON'T LIKE:***
Fiddly film height adjusters; 120 film holder too short for 3 frames of 6x7

# Silver Oxide *Landscape*

Those who really, really like to tinker under the bonnet of digital images will have learned how to tweak the lacklustre into the acceptable and the acceptable into the excellent. For the rest of the human race, there are plug-ins. The latest on our radar are two from Silver Oxide that seek to replicate the effects of polarising and colour filters for colour and black and white landscapes. Both filters come with 16-bit

# Compact Flash *Roundup*

Speed up your camera and cut your download times with a high-speed card

## DELKIN EFILM PRO

**From £30**

Delkin's eFilm Pro offers 133x speed, the upper limit of what's available. Higher capacity cards are available up to 8GB. Cameras should support FAT32 formatting for 2GB cards and above. In use the card allowed a 20-second burst of 5fps with a Canon 30D, and maintained a 4-5fps burst before finally slowing to 2-3fps. The camera stalled for 8 seconds during the one-minute continuous shooting, but otherwise it was most impressive.

**tech** *specs*

**MAKE:** Delkin
**MODEL:** eFilm Pro
**CAPACITY:** 256MB-8GB
**DATA SPEED:** 133x
**CAMERA SPEED:**4.24MB/S
**DOWNLOAD SPEED:** 10.4MB/S
**OTHER:** NA
www.delkin.com

**the** *scores*

**87%**

## LEXAR PROFESSIONAL

**From £50**

Lexar cards use the company's own Write Acceleration technology to increase the speed of data flow, and this proves itself with the fastest shooting performance here, and excellent download times. In the Canon 30D, the Lexar allowed a 25-second continuous burst at 5fps, then averaged 2-3fps over the remaining minute with only short intermittent shooting gaps of a second or so. A very good performance from Lexar, with photo recovery software to boot.

**tech** *specs*

**MAKE:** Lexar
**MODEL:** Professional 133x WA
**CAPACITY:** 1GB-4GB
**DATA SPEED:** 133x
**CAMERA SPEED:** 4.42MB/S
**DOWNLOAD SPEED:** 12.61MB/S
**OTHER:** Image Rescue
www.lexar.co.uk

**the** *scores*

**90%**

## MEMORY CORP

**From £31**

Memory Corp's Pro X is a brand new card offering a claimed 20MB/S transfer, matching that of some of the better-known cards. In fact that's a theoretical PC transfer speed, and doesn't bear much relationship with the card's capabilities in real-world shooting. It's not a bad performance though, with a 20-second burst, and slow but continous shooting possible. 5fps went down to 2fps, but very few breaks in the burst.

**tech** *specs*

**MAKE:** Memory Corp
**MODEL:** Pro X
**CAPACITY:** 1GB-8GB
**DATA SPEED:** 133x
**CAMERA SPEED:** 3.05 MB/S
**DOWNLOAD SPEED:** 8.32MB/S
**OTHER:** Photo Rescue/iView
www.memorycorp.com

**the** *scores*

**82%**

## PNY 80X

**From £30**

PNY offers the slowest speed, with 80x, but it's not the slowest performance. It slightly beats the Pro X card in-camera, but is a little slower in download times. This is important, especially if you need to quickly download several gigabytes of images to clear a card, when even a few minutes count. However, PNY offers good value for money in terms of megabyte per pound so is an attractive proposition. Faster cards up to 133x are due to ship any time.

**tech** *specs*

**MAKE:** PNY
**MODEL:** 80x
**CAPACITY:** 512MB-2GB
**DATA SPEED:** 80x
**CAMERA SPEED:** 3.21 MB/S
**DOWNLOAD SPEED:** 8.04MB/S
**OTHER:** NA
www.pny-europe.com

**the** *scores*

**82%**

## SANDISK EXTREME

**From £50**

SanDisk Extreme III's big claim to fame is the durability, and claims of operation from -25 to 85°C. Performance is pretty impresssive too, with a full 30 seconds of constant shooting over 5fps. This slowed down somewhat to 2-3fps, but there were very few breaks in the burst and about 220 shots were taken in one-minute bursts. However, it failed to match the in-camera speed of the Delkin or Lexar cards overall. Still, its read speed is the fastest here.

**tech** *specs*

**MAKE:** SanDisk
**MODEL:** Extreme III
**CAPACITY:** 1GB-8GB
**DATA SPEED:** 133x
**CAMERA SPEED:** 3.58 MB/S
**DOWNLOAD SPEED:** 12.77MB/S
**OTHER:** Rescue Pro
www.sandisk.com

**the** *scores*

**89%**

## Two plug-ins that replicate the effects of polarising filters **$70 EACH** www.silveroxide.com

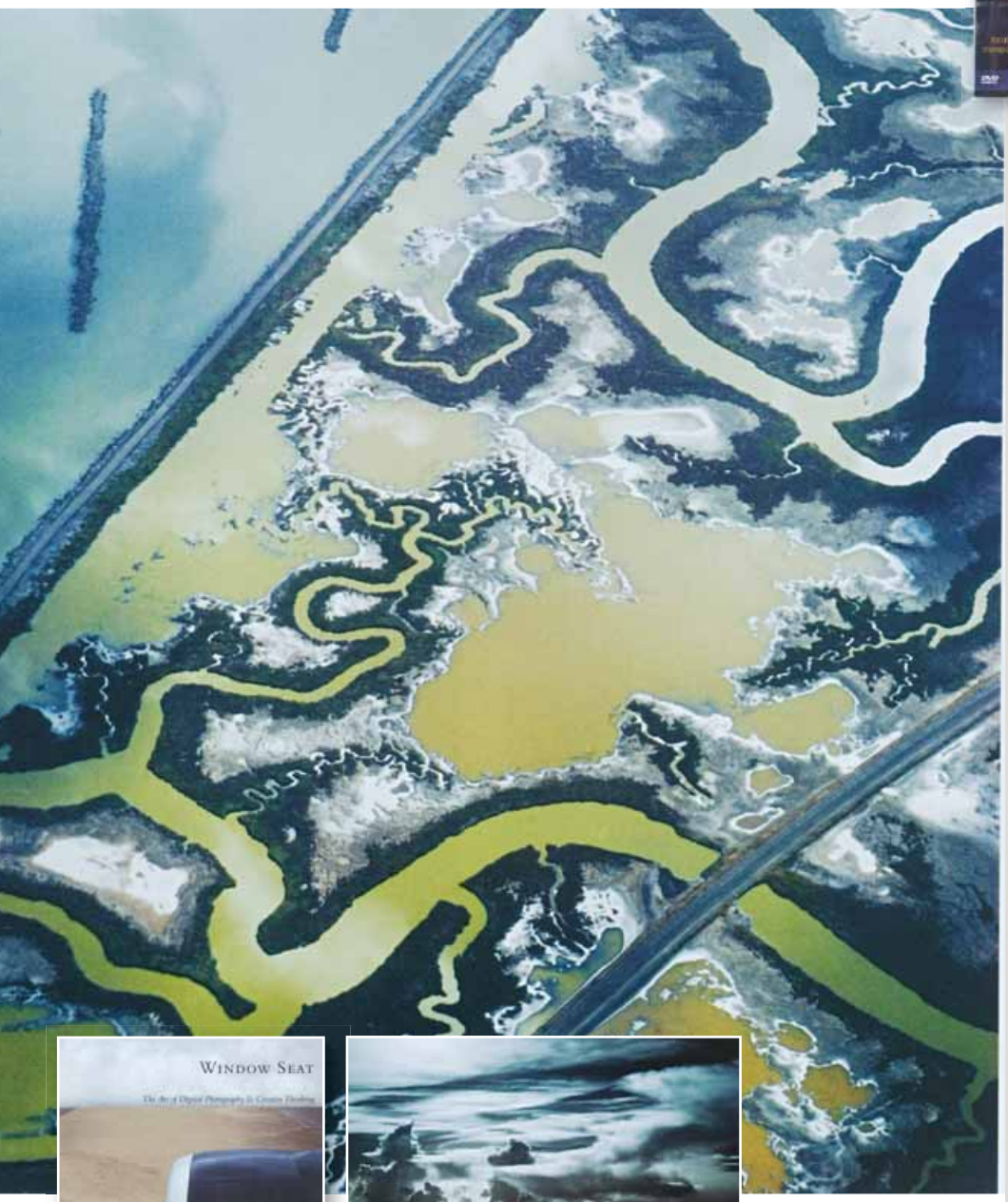
functionality and can also be used in eight-bit colour mode.

The Color Landscape filter adds pep to colour images and is similar to the Exposure software we featured last issue. It's a bit trickier to use than either Exposure or the black and white filter, and it is probably best-suited to making a good image better, rather than to rescue a dull landscape. Both filters allow you to preview the effect and to tweak the gamma and the brightness to get the desired effect, all the while with the option of a full histogram to show you where your main tonal values are. The black and white filter works well on images of all kinds and might be viewed as a very good and (in a good way) predictable alternative to the Channel Mixer in Photoshop for mono conversions.

**VERDICT**

*There's a hell of a lot more going on here than an 'Auto levels' command. When the filter works it works very well; when it doesn't it's disappointing. As with all 'filters' in photography the key is knowing when to use it and when not to. These are useful additions to the Photoshop toolbox, especially the mono version.* **80%**

WhatPG Proudly Presents, Thx for Support

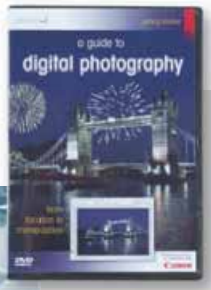


# Window Seat: The Art of Digital Photography and Creative Thinking

**£16.99** Julieanne Kost
**Published by:** O'Reilly

Ms Kost is a 'Photoshop Evangelist' at Adobe, a job that entails spending about 200 days of the year flying around the world representing Adobe at talks, seminars, and so forth. This unique and original book puts that air time to good use. It's partly an action plan for staying creative and inspired, partly a showcase of some stunning images taken through the windows of commercial passenger planes, and partly a technique guide to Photoshop. Although packed with practical advice this very personal book is designed to inspire as much as inform, and I think it does both very well. I'll certainly be asking for a window seat next time I fly. **89%**

YYePG Proudly Presents, Thx for Support




## A Guide to Digital Photography

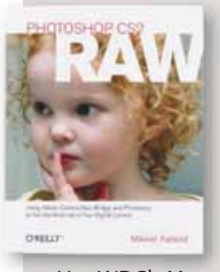
**£14.95** Vincent Oliver
**Published by:** Photo-i

If you prefer your information to come from your TV rather than a book, this instructional DVD should be right up your street. Presented by respected digital photography expert (and WDC contributor) Vincent Oliver, it guides the viewer through all the basics of digital photography before tackling each of the main subjects (landscapes, portraits, etc) in turn, both from a shooting and an editing point of view. The presentation is impressive, with quality pictures and clear explanations, backed up by decent graphics. Ideal for the novice photographer. **87%**

## Really, Really, Really Easy Step-By-Step Digital Photography

**£6.99** Gavin Hoole and Cheryl Smith
**Published by:** New Holland, £6.99

If the title doesn't make it clear whom this book is aimed at, the subtitle 'For absolute beginners of all ages' does. It's written by a management consultant and a web artist, who seem to know little more about the subject than their target audience. They stick within a narrow comfort zone: Windows XP, Google Picasa, and a few pages on picture-taking that could have been lifted out of the manual for all the depth provided. Worse, it looks as if the book was designed in Microsoft Word. **60%**




## Photoshop CS2 RAW

**£24.99** Mikkel Aaland
**Published by:** O'Reilly

Has WDC's May supplement whetted your appetite for shooting RAW? This book takes an in-depth look at all the features of Adobe's Bridge, Camera Raw and Photoshop software. Though easy-to-follow, it's no beginners guide, but offers useful explanations of tasks such as building a workflow, sharpening, reducing noise and more. If you want to get the best out of your RAW files, this book is a must. **90%**

# Cast your vote NOW!

## In the What Digital Camera Good Service Awards

When purchasing something as complicated and expensive as a new digital camera or piece of equipment, good service when buying, and after-sales care, should be just as important as a keen price.

What Digital Camera has decided that it is time to reward those retailers who go the extra mile, and has launched its inaugural Good Service Awards. There are two categories: Best Online Retailer and Best High Street Retailer. If you've recently bought some kit and want to rate the service, simply visit **www.whatdigitalcamera.com** and click on the Good Service Award button to cast your vote, taking into consideration the following criteria:

- **Overall service**
- **Friendly, knowledgeable staff**
- **A wide range**
- **After-sales care**
- **Competitive prices**
- **Quick delivery** *(Online retailer specific)*
- **Easy-to-use site** *(Online retailer specific)*

## WHAT YOU CAN WIN

You could win some great prizes including the stylish Kodak EasyShare-One: the world's first Wi-Fi digicam packed full of innovation, including touch-screen menu and a 3inch LCD screen that swivels 180°. The Kodak EasyShare-One has an RRP of £400.

For more information about this camera visit **www.kodak.com**
Closing Date for the Good Service Awards is 31 December 2006. Strictly one entry per person. You can vote in both categories if applicable.

**TERMS & CONDITIONS:** If for any reason the ability to enter online is suspended at any time then entry may be made by post. Please list your choice of retailer (either online or High Street); the branch (if High Street) and a rating out of 10 (1 being worst, 10 best). Please send your entry to IPC Media, Room 0417, King's Reach Tower, Stamford Street, London, SE1 9LS. The competition is open to all UK and Republic of Ireland residents aged 18 or over other than employees of IPC Media, their agencies or families. IPC reserves the right to substitute the prize (or part of the prize) of equivalent or greater value if this is necessary for reasons beyond its control. The winners will be [illegible] the competition.

YYePG Proudly Presents, Thx for Support

**Epson** *RX520*
**£149** www.epson.co.uk

**Canon** *Pixma MP150*
**£69.33** www.canon.co.uk

**Canon** *Pixma MP500*
**£186.83** www.canon.co.uk

YYePG Proudly Presents, Thx for Support

THE GROUP TEST

# ALL-IN-ONES

Is this the best of both worlds or a forced compromise combining a printer and a scanner on the cheap? **Ian Burley** discovers whether the rise of all-in-one printer/scanners is deserved

YYePG Proudly Presents, Thx for Support

# **Canon** Pixma MP150

## Appearance and build quality belie the low price of this unit

**£69** www.canon.com

**SCANNER:** 1200 x 2400ppi **FILM SCANNING:** No **INKS:** 2 cartridges **PRINT RES:** 4800x2400dpi **LCD:** No **MEDIA SLOTS:** No

The Canon MP150 looks dearer than its price tag until you realise that there is no LCD display, memory card slots, CD/DVD printing or film scanning capability. At least the unit is compact, neat, and well built. The MP150 utilises Canon's new combo ink tanks system with integrated print heads. This is a backward step from Canon's pioneering cheaper-to-run single ink tank system with separate print head. But the new combo tanks mean Canon can produce a product with a cheaper price. This could be excused if photo print quality was good, but prints lack sparkle because of muddy blacks despite Canon's much-vaunted FINE printing technology. Printing speed was middling, at four and a quarter minutes to print a borderless A4 photo. Scan quality is good, only let down by a slight greenish tint to grey tones. Use of mainly dye-based inks on microporous papers means the MP150 is not a strong contender in the photo print life stakes.

**VERDICT**

**The unit is compact and doesn't look cheap, but without card slots, an LCD screen or other luxuries, plus disappointing photo print quality, it's hard to recommend the MP150.** WDC

**the** *scores*

**80%**

**15** Print quality
**17** Scan quality
**14** Features
**17** Ease of use
**17** Value

**WHAT WE LIKE:**
Compact, refined, well built, cheap

**WHAT WE DON'T LIKE:**
Brownish weak blacks, combo ink cartridges

# **HP** PSC 1510

## The 1510 needs the optional print cartridge for best quality

**£84** www.hp.co.uk

**SCANNER:** 1200 x 1200ppi **FILM SCANNING:** No **INKS:** 2 cartridges **PRINT RES:** 4800x1200dpi **LCD:** No **MEDIA SLOTS:** No

To be fair, the HP psc 1510 is not part of the HP Photosmart range that is targeted at photographers, and a photo cartridge is not supplied as standard. There are no memory card slots, but you can print direct from your camera via PictBridge. Photo print quality from the standard black and colour combo cartridges is adequate for non-critical purposes, though close inspection reveals relatively more grain. Buying the optional photo ink cartridge will improve photo prints. More serious is visible banding and poor detail in areas of heavy reds. At least print speed was good: three and a half minutes for an A4 borderless photo. Scanner results are oversharpened by default, over-warm in tone and you'll either love or hate HP's control software that tries to second-guess your needs. At £30 more, the Lexmark P4350 offers similar running costs, slightly better print quality and more features.

**VERDICT**

**The HP psc 1510 is a clever design, but it lacks features, including direct printing from memory cards and an LCD display. A photo ink cartridge is also an extra cost option. Banding on prints and over-sharpened scans were also noted.** WDC

**the** *scores*

**79%**

**15** Print quality
**16** Scan quality
**14** Features
**17** Ease of use
**17** Value

**WHAT WE LIKE:**
Looks good, fast printing

**WHAT WE DON'T LIKE:**
Photo ink cartridge extra, banding, wet photo prints

YYePG Proudly Presents, Thx for Support

# **Lexmark** P4350

## A lot of printer and scanner for not much money

**£99** www.lexmark.co.uk

**SCANNER:** 1200 x 2400ppi **FILM SCANNING:** No **INKS:** 5 cartridges **PRINT RES:** 9600x2400dpi **LCD:** 2.5" **MEDIA SLOTS:** CF,SM,SD,MMC,MS

You have to give Lexmark credit for delivering an all-in-one with a colour LCD and associated direct printing facilities for under £100. Credit is also due when it comes to photo printing. With the standard photo cartridge used, reasonably good tonality is achieved, if at the expense of slightly too much saturation. It also boasts good fade resistance through the clever use of a hybrid pigment and dye-based ink set. Fast printing is not something you'll get, with an A4 borderless photo taking seven minutes to complete. We've also experienced more nozzle blocking problems with Lexmark cartridges than any other. Scanning is also relatively leisurely, though results are not bad. Perhaps the biggest concern is the long-term running costs because Lexmark combo ink cartridges are not the cheapest.

**VERDICT**

**The Lexmark P4350 is almost identical to the original P6250 model but is cheaper thanks to a smaller LCD display. Lexmark boasts competitive print life, though photo print quality is only average and printing times are long. Long term printing costs are also a concern, if you expect to make a lot of photo prints.** WDC

**the** *scores*

**83%**

**16** Print quality
**15** Scan quality
**17** Features
**17** Ease of use
**18** Value

**WHAT WE LIKE:**
Features and price

**WHAT WE DON'T LIKE:**
Slow printing, long term running costs

# **Epson** RX520

## This unit is feature-rich, and has an attractive price

**£150** www.epson.co.uk

**SCANNER:** 1200 x 2400ppi **FILM SCANNING:** Yes **INKS:** 4 cartridges **PRINT RES:** 5760x1440dpi **LCD:** 1.5" **MEDIA SLOTS:** CF,SM,SD,MMC,MS,xD

Out of the six units tested here, the RX520 is the only one of two that includes film-scanning capability and, though it has limitations, it works much better than the system found on the HP 3210. Both scans and photo prints offer good dynamic range and deep blacks, and a welcome lack of over-saturation that can blight cheap printers. And the RX520 achieves very good photo print quality without extra 'photo' ink shades. The RX520 was the slowest printer of the bunch, taking seven minutes to print a borderless A4 print using best-quality driver settings. Another concern is the longevity of the RX520's dye-based inks. Scanning speed was more respectable, only being beaten by the HP 3210 at 300ppi. Despite its tiny LCD screen, the RX520 worked just as well when direct printing from memory cards as the others.

**VERDICT**

**Ignoring print speed, the Epson RX520 proved to be the best all-round performer, with sharp scans and prints, and refreshingly neutral colours and deep blacks. But the RX520 makes you wait for your prints, though the scanner section proved to be the fastest but one.** WDC

**the** *scores*

**90%**

**18** Print quality
**18** Scan quality
**18** Features
**18** Ease of use
**18** Value

**WHAT WE LIKE:**
Print and scan quality, value, features

**WHAT WE DON'T LIKE:**
Print speed

YYePG Proudly Presents, Thx for Support

# **Canon** Pixma MP500

## The MP500's imposing size may not do it any favours

**£186** www.canon.co.uk

**SCANNER:** 1200 x 2400ppi **FILM SCANNING:** No **INKS:** 5 cartridges **PRINT RES:** 9600x2400dpi **LCD:** 2.5" **MEDIA SLOTS:** CF,SM,SD,MMC,MS

The MP500 is a very different proposition to the MP150. It retains the low running cost and speed advantages of separate ink tanks and a separate print head, though photo printing must depend on very small drop sizes rather than light magenta and cyan 'photo' inks. The MP500 adds the facility of a small colour LCD for printing direct from memory cards without a PC. Unfortunately, as with all the similarly equipped all-in-ones in this test, there is no way to quickly navigate through large numbers of images using a thumbnail matrix display, as you would on your camera. Photo print and scanning quality were much the same as the MP150; not really good enough, though the MP500 is faster at just under four minutes to print a borderless A4 photo. Some rival printers offer better photo fading resistance. In the end the MP500 is too expensive for what it ultimately offers.

**VERDICT**

**Like the much cheaper Pixma MP150, photo prints lack acceptable neutrality and depth in blacks, while scans have a slight greenish tinge. The lack of film scanning capability at this price marked it down too, though CD/DVD printing is supported.** WDC

**the** *scores*

**83%**

**16** Print quality
**17** Scan quality
**17** Features
**18** Ease of use
**15** Value

**WHAT WE LIKE:**
Print speed, scanning speed

**WHAT WE DON'T LIKE:**
Large, photo prints lack depth, no film scan facility

# **HP** Photosmart 3210

## An HP all-in-one that has film-scanning capability

**£199** www.hp.co.uk

**SCANNER:** 4800x2400ppi **FILM SCANNING:** Yes **INKS:** 5 cartridges **PRINT RES:** 4800x1200dpi **LCD:** 2.5" **MEDIA SLOTS:** CF,SM,SD,MMC,MS

The HP 3210 is one of just two all-in-ones in this group test that offers film-scanning capability. Also, it uses HP's new single colour ink cartridge and separate print head system, including light 'photo' magenta and cyan inks. Benefits include faster printing through the use of a more sophisticated and wider permanent print head and not as much ink waste. Photo prints take a long time to dry, the benefit being longer-lasting colours, though less-shiny glossy prints. The 3210 was comfortably the quickest to deliver an A4 borderless photo, taking just over three minutes. Photo print quality is good, but lack of definition in some areas of heavy colour is a problem. This can be remedied through printer profiling. Scanner results showed good colour and grey neutrality, but over-sharpening, though this can be adjusted. Stowing of the film scan holder in the scanner lid is very neat, but the film scan control software is not, and results were unremarkable.

**VERDICT**

**Printing is fast, and print quality is OK rather than stunning, with poor detail in areas of deep red. Film scanning is welcome but it's not as good as Epson's. Overall, worth considering.** WDC

**the** *scores*

**86%**

**17** Print quality
**17** Scan quality
**18** Features
**17** Ease of use
**17** Value

**WHAT WE LIKE:**
Single colour ink tanks, fast printing

**WHAT WE DON'T LIKE:**
Colour definition, crude film scanning system, wet photo prints

What Digital Camera choice

YYePG Proudly Presents, Thx for Support

# THE FACTS

Quick cross-reference guide to the main features of each multifunctional

| | CANON PIXMA MP150 | HP PSC 1510 | LEXMARK P4350 | EPSON RX520 | CANON PIXMA MP500 | HP PHOTO-SMART 3210 |
|---|---|---|---|---|---|---|
| PRICE (RRP) | £69.33 | £84.99 | £99.99 | £149 | £186.83 | £199.99 |
| SCANNER TYPE | Contact Image Sensor | Not stated | Contact Image Sensor | Contact Image Sensor | Contact Image Sensor | Not stated |
| MAX RES | 1200 x 2400 ppi | 1200 x 1200ppi | 1200 x 2400 ppi | 1200 x 2400ppi | 1200 x 2400 ppi | 4800x1200 ppi |
| FILM SCANNING | N/A | N/A | N/A | 2400 x 2400dpi | N/A | 2400 x 2400dpi |
| INK CARTRIDGES | 2 | 2 | 2 | 4 | 5 | 5 |
| INK TYPE | Pigment black, dye-based magenta, cyan, yellow | Pigment black, dye-based magenta, cyan, yellow | Dye / pigment combination inks, black, cyan, magenta, yellow, photo cyan, photo magenta | Dye-based black, magenta, cyan, yellow | Pigment black, dye-based black, magenta, cyan, yellow | Dye-based black, magenta, cyan, yellow, photo cyan, photo magenta |
| MAX PRINT RESOLUTION | 4800 x 1200 dpi | 4800 x 1200 dpi | 4800 x 1200 dpi | 5760 x 1440 dpi | 9600 x 2400 dpi | 4800 x 1200 dpi |
| COPIER FUNCTION | Yes | Yes | Yes | Yes | Yes | Yes |
| COLOUR LCD | No | No | 1.68 inch | 1.5 inch | 2.5 inch | 2.5 inch |
| CONNECTIVITY | USB 2.0 Hi-Speed | USB 2.0 | USB 2.0 Hi-Speed | USB 2.0 Hi-Speed | USB 2.0 Hi-Speed | USB 2.0 Hi-Speed |
| INK COSTS | £46 | £26/£17 | £33/£13.50 | £28 | £52 | £46 |
| DIMENSIONS | 443 x 381 x 181 mm | 492 x 200 x 338 mm | 177.5 x 435 x 334 mm | 432 x 413 x 199 mm | 448 x 426 x 205 mm | 464 x 395 x 220 mm |
| WEIGHT | 5.4 kg | 5.4 kg | 4.8 kg | 7.8 kg | 9.6 kg | 11.9 kg |
| DIRECT PRINT MEMORY CARD SLOTS | N/A | N/A | CF I&II, SM, SD, MMC, MS, | CF I&II, SM, SD, MMC, MS,xD | CF I&II, SM, SD, MMC, MS | CF I&II, SM, SD, MMC, MS |
| OTHER FEATURES | | | Optional wired LAN and print server | Colour restore and software-based dust removal | CD/DVD printing | Wired LAN port, optional duplex printing adapter |

# THE CONCLUSION

Epson's RX520 bubbled up to the top of the bunch we tested, both in terms of image quality and value for money. You get a respectable film scanner along with flatbed scanning, copier function and inkjet printing, plus direct printing from PictBridge-linked cameras as well as from memory cards. Some might criticise the RX520 for colour rendition that lacks the saturation of the others tested, but in my eye that shows that Epson favours more accurate colour reproduction. However, the RX520 may not be for you if speed and/or top-quality text printing on plain paper is a critical requirement. For £50 more, HP's Photosmart 3210 packs in the features and the 3210's print quality is potentially very good if you don't mind calibrating the printer. Both the Canons were disappointing, with lacklustre photo black depth and neutrality, but they are quick and well made. The Lexmark P4350 represents a good initial buy but watch out for ink costs.

# THE ADVICE

All-in-one multifunctionals save valuable desktop space and offer a degree of integration that makes functions such as copying and cable management a relative breeze. In general, the printer section of an all-in-one will be based on a standalone printer chassis, and print quality is usually similar to that of the printer on which it is based. Be sure you know what kind of printer you want – be it one that offers the full range of photo inks, whether you prefer the disposable ink cartridge and print head combo or the single-colour ink tank arrangement, which is cheaper to run. All-in-ones are aimed more at general-purpose users than at dedicated photographers, so specialist standalone photo printers will have more choice of exotic ink systems than all-in-ones will. All the models managed a reasonably good scanning performance, but you won't get feature-rich scanner control software, or luxuries such as hardware-enabled dust and scratch removal aids. Some models do offer film scanning, but it will be basic. If you want the very best qualities from a scanner and a printer, buy a separate, best of breed, scanner and printer.

YYePG Proudly Presents. Thx for Support

## **Casio** Exilim Zoom EX-Z600

6 Megapixels / 3x Optical Zoom

**£195**

## **Nikon** Coolpix S5

6.18 Megapixels / 3x Optical Zoom

**£249**

## **Olympus** μ[mju:] 700

7.4 Megapixels / 3x Optical Zoom

**£182**

## **Lexmark** P450 photo printer with built-in CD writer

4800 x 1200 ppp / 38 Seconds per Photo

**£135**

# Over 4,000,000 customers have already joined Pixmania

### 100% Secure Payment

4 payment methods: Visa, Mastercard, Cash (via the London pick up store), bank transfer and finance options

### Next day delivery

Fast next day delivery right to your door (24 hours) thanks to an efficient logistics platform and permanent stock availablilty.

### Pick-up store in London

Your parcel can be paid and collected from our pick up store in London at :
792, Fulham Road Fulham - LONDON SW6 200m away from Putney Bridge Station (District Line)

### MyPixmania.com for online photo prints

All your photos processed on-line on Fuji professional photo paper delivered to your door with myPixmania.com

YYePG Proudly Presents, Thx for Support

HAND-HELDS | MOBILES | COMPUTERS | ACCESSORIES

# PIXmania.com

*Digital entertainment at unbeatable prices, service included*

## Kodak EasyShare V570

**£222**

5.36 Megapixels
2.5" LCD Screen
3x Optical Zoom
4x Digital Zoom

**Panasonic** Lumix DMC-FX9
6.37 Megapixels / 3x Optical Zoom
**£219**

**Epson** Perfection 4490 Photo Scanner
4800 dpi x 9600 dpi / 27 sec for a 600 dpi A4 Colour
**£165**

**Sony** Cyber-shot DSC-W50
6.1 Megapixels / 3x Optical Zoom
**£169**

### 2 years free warranty
All products come with a FREE 2 years warranty and possibility to have an extension for up to five years.

### Consumer Electronics at competitive prices
Pixmania, part of the Fotovista group, has been the leader in the photography world since 30 years. Experience and excellent knowledge offers you some of the lowest prices on the market.

### Over 40,000 products in stock
All the latest models and the largest name brands available to choose from.

### Ease of ordering
Our professional customer service is ready to take your order and answer any queries at:

**08700 118 117**
NATIONAL RATE

**£10 discount***
**for all What Digital Camera? readers on all our product lines by using the following promotional code**
**whatdigicam0406**

YYePG Proudly Presents, Thx for Support

*All prices include VAT. Prices subject to change without notice. Actual internet price valid from 28/04/2006 to 28/05/2006. Please visit the website for the most up to date prices. We are open Monday to Friday from 9 AM to 5 PM. Pixmania - 187 rue du Chevaleret - 75013 Paris.*
***Get a £10 discount by telling us the following promotional code: whatdigicam0406**. Offer for orders over £150. This promotional code is valid until the 28/06/2006. RCS Paris B 352 236 244.* 888UK/5

# WIN! LEXMARK™

The P6350 is the stylish new photo All-in-One from Lexmark. Designed with the digital photographer in mind, it produces stunningly vivid photos with its six colour output and borderless capabilities. PictBridge compatible, the P6350 features a 2.5" LCD colour screen to preview and print photos without even connecting to a PC and comes complete with photo lab software making it simple to enhance your photos in an instant. And if all this wasn't enough, the P6350 also scans and copies so sharing photos is ultra-simple.
The P6350 retails at £149.99. For more information visit – **www.lexmark.co.uk**

# WDC Letters

## SoundByte
**Musings from the Editor**

## Too little, *too late*

When Konica Minolta announced their withdrawal from photography I had visions of dealers up and down the land looking at their stockpiles of Dynax's and thinking 'How on earth am I going to shift those now.' But I couldn't have been more wrong. Far from the brand's demise turning purchasers away it has flushed them out of the woodwork. We've had loads of readers wanting to know where they can buy a Dynax DSLR, and dealers say they've been flying off the shelves. I don't know whether this demand is from 35mm Dynax users grabbing a last chance for a DSLR body for all their lenses (which it won't be, because Sony will continue with the mount), or speculators after potential collectors' items, but I bet Konica Minolta are wishing that the public had shown this much interest in their cameras a lot earlier.

## Farewell *to Bob*

I was shocked and saddened by the death of photographer Bob Carlos Clarke. Shocked because I saw him at an exhibition just a couple of weeks before, and he seemed fine (whatever that means), and saddened because photography has lost one of its greatest talents.

I've known Bob for many years. He could be an intimidating guy to be around because he was quite intense, passionate and opinionated, as many creative people are, and fantastically un-PC. But it was his sense of humour I'll most remember. Dry and sarcastic, his ready wit made him not only an entertaining lunch companion but a brilliant writer. I don't recall ever laughing so much at any photography book, before or since, as when he asked me to read the unpublished draft manuscript of what became Shooting Sex.

Full details of his death aren't known at the time of writing but, whatever the circumstances, my thoughts are with his family, who I hope will find comfort in the knowledge that, long after most of us have been forgotten, he will be remembered as one of the greatest photographers of his generation. His work, at least, will live forever.

## Something to say? Then drop us a line

**Contact us at:** What Digital Camera, King's Reach Tower, Stamford Street, London SE1 9LS
Tel: 020 7261 5323 Fax: 020 7261 5398 Email: wdc@ipcmedia.com

### Finders *Weepers*
From: Mike Carroll

I'm noticing a trend among manufacturers which was very evident in your March issue's camera tests – the demise of the humble viewfinder. Not one of the compacts tested had one. Are we not more likely to encounter increased camera shake holding a camera eighteen inches away from our face than one pressed up to our eye? Have we all to try and shade the screen every time the sun is behind our backs? Do older photographers have to don a pair of glasses to see the camera settings rather than check a very useful EVF where all relevant information can be easily read? Is this really the way forward? If you are considering buying a camera with a viewfinder, get one bought, as they seem to be disappearing as fast as film.

***Nigel replies**: The answer to all your questions is yes, Mike. But you can blame your fellow camera-buying public for that. Just watch how people use digital cameras; hardly anyone uses the viewfinder even when they have one, and poll after poll shows that buyers would prefer to lose the viewfinder in favour of a bigger screen. This isn't very good news for the long-sighted, but in the end it's the market that decides. If there's enough demand for viewfinders on compacts there will always be someone who will make one. If not, buy an SLR-style superzoom – they'd be unusable without viewfinders.*

### Chick *Trick*
From: S Neale

The photos of the Olympus E-330 used on the cover of the April issue of WDC are very misleading. Please tell me how you managed to get the 14-45mm lens to focus down to an

## Letter *of the month*

this month's **STAR** prize

### Water *Carry on*
From: Rob Kitching

Why do so many photographers think that flowing water must be photographed with a slow shutter speed? This just gives the effect of cotton wool and looks ridiculous. A prime example is in your April edition (right), where John Freeman obviously prefers picture 'B'. It looks awful. Example 'A' is more realistic and much more pleasing to look at. It seems that the mark of the so-called 'experienced amateur' is to do exactly what John Freeman has done, because they've been told this is the right way to photograph running water. Do they ever stand back and ask themselves if this is anything other than a photographic cliché? Give me version 'A' any day.

**Nigel Atherton replies:** *I love a bit of controversy on the letters page, so thanks Rob. I'd love to know how other readers like their running water: frozen or blurred. In fact, I think we'll make that the poll question on our website this month. Go online and vote at www.whatdigitalcamera.com. You can also email us at **wdc@ipcmedia.com** , writing 'frozen water' or 'blurred water' in the subject line. Do it by 1st May and we'll let you all know how the voting went in the next issue.*

YYePG Proudly Presents, Thx for Support

## Whodunnit?

**WIN** Roxio Easy Media Creator 8

*Simply visit the Gallery on our website at www.whatdigitalcamera.com and tell us who took this picture, and on which camera. Then, go to the 'Competitions' section, select 'Whodunnit' and enter your answer. The winner will be chosen at random.*

*New Roxio Easy Media Creator 8 Suite has everything you need to edit, copy, back up, and burn your video, photo, music and data files to CD or DVD.*

roxio

inch between the subject and the front element of the lens.

I suspect the photographs are part of Olympus' advertising, but isn't it wrong to publish such advertising that is clearly misleading and can suggest that a camera is capable of doing something that it can't? WDC has a responsibility to the readers to stop this misrepresentation. I'd also wonder what the legal side is under the Trades Description Act.

***Nigel replies**: The image was actually created by us, not Olympus, to illustrate the concept of Live View and make an interesting cover. It's called creative licence. As you know, there's no way we could get an image of something interesting on the camera's LCD screen and show that same object on the cover as well without some trickery.*

*But I'm pretty sure our readers don't take everything quite so literally and will figure this out, just as they'd have guessed that the camera wasn't actually hovering in mid-air, without any visible means of support.*

*I certainly hope so, because our Xmas cover had a Canon EOS 5D inside a snow globe! I hope no one believed that the camera really was inside, and so assumed that the 5D was a] waterproof and b] very small.*

## **Budding** *Bailey*

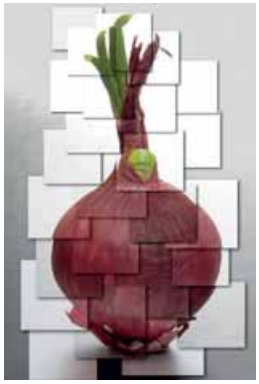
From: Mandy Holloway

Thought I'd send you a picture of our daughter with my husband's new camera (a Nikon D200 but I guess you knew that from the photo). She definitely wants in on the action and gets quite frustrated that, at almost three years old, she cannot shut one eye and look through the viewfinder with the other! She picks up my IXUS, opens it up from the case, turns it on and takes perfectly centred photos of anything around the room.

***Nigel replies**: Thanks for this, Mandy. Whenever I get emails from readers who can't work out how to use a digital camera I'll send them this pic and tell them to hang their heads in shame!*

## **Joiners** *Made Easy*

From: Tony



I read the article on Andrew Harris (March issue, p76) and was encouraged to experiment. I'd just bought a Nikon D200 and was eager to use it. This image is the result and it was very simple to do. It involves taking just one close-up photo and then playing around in PhotoShop. I think I've created a similar effect in a much simpler way.

# **Web Forum** *Chat*

## DSLR screens

***Posted by:*** Zak52
***Board:*** Digital Capture

I have read with interest the concerns of some Digital SLR users that the review screens on some cameras fail to give an exact representation of the image captured, ie while the preview screen shows a well-exposed image, when downloaded to a PC the image proves to be underexposed.

I have owned two DSLRs, the Olympus E300 and E500 models. While the E300 was fine in this respect, I quickly found the E500 images appeared to be underexposed when viewed on the PC. I assumed that the camera had a fault and it was sent back to Olympus for checking. The literature that came with the returned camera gave me little clue as to what had been done other than that 'adjustments had been made'.

The camera does seem better now but there is a tendency to underexpose in dimly lit conditions, with or without the flash. I should really like to hear the experiences of other Digital SLRs users.

*Posted by:* David Steel

My 10D wasn't as good as my D30 for judging exposure. My 20D is better. It's better to use the histogram to judge exposure.

***Posted by***: huwevans

People often complain about this, but the plain view on the preview screen isn't intended to be used for judging exposure – that's what the histogram and over-exposed highlights displays are for. To be completely honest, anyone who expects to be able accurately to judge exposure from an LCD screen on the camera is asking for trouble.

***Posted by***: Zak52

I agree with you David, and have always used the histogram myself. However, when one is over-excited by 'a never to be repeated photo opportunity' then that self-discipline can suffer!

Visit our new and improved website and take advantage of our reviews, tutorials, galleries and much more

www.whatdigitalcamera.com

YYePG Proudly Presents, Thx for Support

# WHAT DIGITAL CAMERA

# SUBSCRIPTION OFFER

## Complete the coupon below

Return to:
**WHAT DIGITAL CAMERA SUBSCRIPTIONS, FREEPOST CY1061, HAYWARDS HEATH, WEST SUSSEX, RH16 3BR** (NO STAMP NEEDED)

**YES! I'd like to subscribe to What Digital Camera and get my FREE Lowepro Bag Worth £24!**

- ☐ **Direct Debit:** Pay just **£9.55** every three months, **saving over 30%** off the full three monthly rate of £13.65. **That's the equivalent of 4 FREE issues over the year.**
- ☐ 2 years: Pay £81.90 (full price £109.20) **Save 25%**
- ☐ 1 year: Pay £43.65 (full price £54.60) **Save 20%**

### YOUR DETAILS:

Mr/Mrs/Miss/Ms: Forename:

Surname:

Address:

Postcode:

Home Tel. No: (inc area code)

If you would like to receive emails from What Digital Camera and IPC containing news, special offers and product and service information and take part in our magazine research via email, please include your email below.

Email:

Date of Birth: D D M M Y Y Y Y

### CHOOSE FROM 3 EASY WAYS TO PAY

**1. Pay £9.55 every 3 months by Direct Debit**

For office use only:
Originators Reference – 764 221

A/C No

DIRECT Debit

Name of bank:

Address of bank:

Postcode:

Name of account holder:

Account no:

Sort code:

Instruction to your Bank or Building Society: Please pay IPC Media Ltd. Direct Debits from the account detailed on this instruction subject to the safeguards assured by the Direct Debit Guarantee. I understand that this instruction may remain with IPC Media Ltd and, if so, details will be passed electronically to my Bank or Building Society.

Signature: Date:

**2.** I enclose a cheque/postal order made payable to IPC Media Ltd. for the amount £_____

**3.** Please debit my: ☐ Visa ☐ Mastercard ☐ Amex ☐ Switch/Maestro (Switch/Maestro)

Card No.

Expiry date / Switch/Maestro Issue/Start Date

Signature: Date:

(I am over 18)

**This offer is open to new UK subscribers only and closes 31st May 2006.** Please allow up to six weeks for delivery of your first subscription issue. Gift stock subject to availability and will be sent separately within 28 days. IPC Media Ltd., reserve the right to supply an alternative gift of the same or higher value **For enquiries and overseas rates please call +44(0)845 676 7778, fax +44(0)1444 445599 or email ipcsubs@qss-uk.com.** What Digital Camera, published by IPC Media, will collect your personal information to process your order. What Digital Camera and IPC would like to contact you by post or telephone to promote and ask your opinion on our magazines and services. Please tick here if you prefer not to hear from us. ☐ IPC may occasionally pass your details to carefully selected organisations so they can contact you by telephone or post with regards to promoting and researching their products and services. Please tick here if you prefer not to be contacted. ☐ In the event that you cancel your subscription within 12 months we will refund you the value of the undelivered portion of your subscriptions, but we reserve the right, in our absolute discretion, to deduct the value of your free gift from any amount refunded.

Code: 31U

# FREE

THE UK'S ORIGINAL AND BEST DIGITAL PHOTOGRAPHY MAGAZINE
WHAT DIGITAL CAMERA
WHAT TO BUY... AND HOW TO USE IT
Slow Down
Using slow shutter speeds for fantastic creative effects
GREAT VALUE ONLY £4.20
THE BIG TEST
Olympus E330
World's first DSLR with full live preview!
Speed Up
How to soup up your PC for ultra fast Photoshop
Panasonic Lumix FZ7
Latest model from the bridge camera masters
THE GROUP TEST
Six of the best sub £500 LCD Monitors for digital photographers
PLUS: Over 200 cameras and accessories in our 12 page Buying Guide

## Subscriber Benefits

- **FREE** Lowepro camera bag **worth £24**
- Get the most authoritative digital camera and equipment reviews
- Discover the latest tips and clever ideas to help improve your imaging skills
- Delivered direct to your door every month

## Call our Order Hotline

# 0845 676 7778

Open 7 days a week 9am - 9pm.

Please quote code **31U** Please have your payment details ready when you call.

YYePG Proudly Presents, Thx for Support

# camera bag

## Subscribe today and receive this *FREE* Lowepro Nova Micro camera bag

in Forest Green

**Worth £24**

**PLUS get 4 issues FREE**

when you subscribe by Direct Debit

### LOWEPRO NOVA MICRO CAMERA BAG

**CAPACITY:**

- SLR with short zoom lens or built-in zoom lens and flash; or point & shoot, or digital still camera; or compact digital video camera

**SIZE (interior):**

- W12.5 x D9 x H15 cm

**HURRY**
Gift stocks are limited

**Gift not available online or to overseas**
**To subscribe or for alternative offers please visit:**

## www.wdcsubs.com/iwcbn

THE DIRECT DEBIT GUARANTEE: This guarantee is offered by all Banks and Building Societies that take part in the Direct Debit Scheme. The efficiency and security of the Scheme is monitored and protected by your own Bank or Building Society. If the amounts to be paid or the payment dates change, IPC Media will notify you at least ten days in advance of your account being debited or as otherwise agreed. If an error is made by IPC Media, or your Bank or Building Society you are guaranteed a full and immediate refund from your branch of the amount paid. You can cancel a Direct Debit at any time by writing to your Bank or Building Society. Please also send a copy of the letter to us. Direct Debits can ONLY be paid through a Bank or Building Society. Your Direct Debit price will stay the same for 1 year from start date.

YYePG Proudly Presents, Thx for Support

# THE TRUTH
# AND NOTHING BUT
# THE TRUTH.
# SO HELP YOU, DXO.

## Log onto dxo.com/wdc and learn more about this optical correction breakthrough.

DxO Optics Pro is a revolutionary software program for Digital-SLRs and advanced digicams based on scientific algorithms customized to correct the limitations of your camera and lens. This unique, breakthrough technology automatically restores the true image that was there when you released the shutter. An indispensable tool when it comes to correcting optical defects such as distortion, vignetting, chromatic aberrations and lens softness. DxO Optics Pro also reduces image noise by two f-stops and optimizes exposure and dynamic range. And it protects and saves your original RAW or JPEG images in a separate file from your corrected data. As well, DxO Optics Pro can function entirely on Automatic or it can give you manual access to its controls in Expert Mode. Once you experience the vast image quality improvements you can achieve with DxO Optics Pro, there's no turning back. Especially when you realize how much time you save once you start working on large numbers of images. When you want the truth and nothing but the truth, always start with DxO Optics Pro.

**Log on to dxo.com/wdc for more information and you could win a Nikon D2X or a Canon EOS 5D.**

DXO®
Simply better images

WIN-MAC

YYePG Proudly Presents, Thx for Support

Helping you to create **better** pictures

# What Digital Camera Techniques

*This month we look at using wideangles, capturing bugs in your garden, making duotones and more. But first...*

**THIS MONTH'S TECHNIQUES**


USING WIDEANGLES p66-71
TAKE THAT p72-74
SOUPED-UP PHOTOSHOP p76-78
HELP FILE p80-84
EVENING CLASS p86-87
THE CROP TOOL p88-89
TONING YOUR IMAGES p90-93


## Plane *of* focus

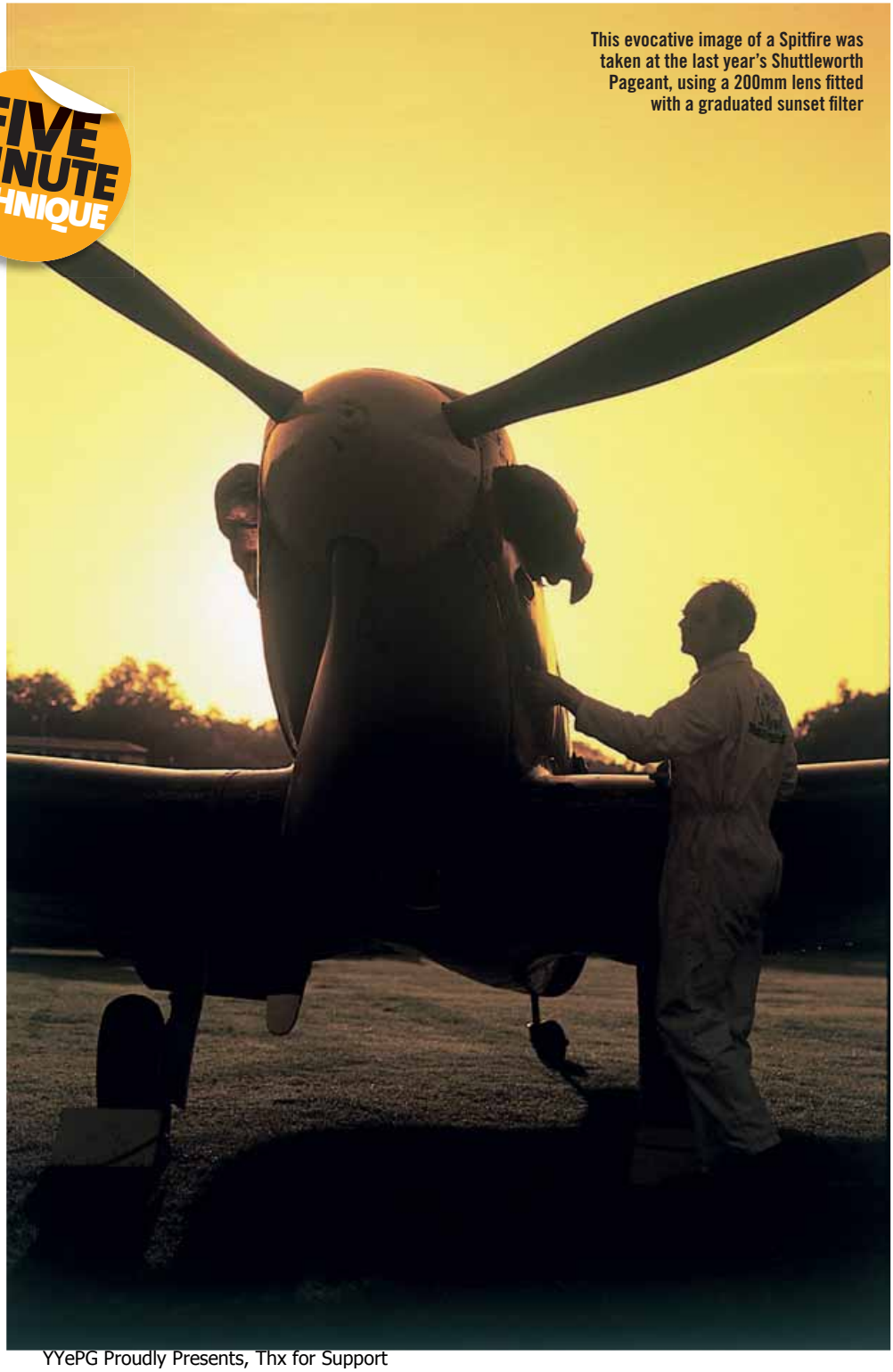
FIVE MINUTE TECHNIQUE

**Photo** Mike Vines
**Details** 200mm lens

### The airshow season kicks off in earnest this month. Follow these tips for success

- For 'flying' shots you'll need a long lens, at least 300mm (equivalent). Fast lenses with a maximum aperture of f2.8 will let you to shoot in lower light levels than would otherwise be possible.
- Set a shutter speed at least as high as the lens's focal length (ie with a 500mm lens use a speed of 1/500sec or higher).
- In the auto modes your meter will expose for the sky, underexposing the aircraft. Set the meter to spot so it reads off the focus point or set manual exposure, reading off a mid-grey area.
- Set the focus mode to Continuous AF, which constantly refocuses to stay locked onto moving subjects. Only use Single AF for shooting static planes on the ground.
- Set the drive to High-Speed Continuous and shoot bursts to increase your chances.
- Use the biggest media card you can get.
- Monopods are useful to hold big lenses.
- Pan with the subject to keep it in the same place in your frame, and continue panning after the shot for a smooth result.
- Try to get shots with the plane banking towards you, showing the top rather than just the undercarriage. Frame the shot so there's more space in front of the plane than behind it, so it's flying into the shot.
- For information on airshows taking place near you visit www.airshows.org.uk

**TIP!** *Look out for interesting static shots on the ground, like this one. They provide more opportunity to experiment with lighting, filters etc, though it can be difficult getting a clean, crowd-free shot.*



This evocative image of a Spitfire was taken at the last year's Shuttleworth Pageant, using a 200mm lens fitted with a graduated sunset filter

YYePG Proudly Presents, Thx for Support

**LEARN:** Distort perspective • depth of field • Photoshop distort filter

# John Freeman's *Guide to...*

# Wideangle *lenses*

Main image © John Freeman

YYePG Proudly Presents, Thx for Support

# Wideangles do more than just include extra detail: used creatively they'll enhance your photography and literally open up the world

**The wideangle lens is one of the most useful tools in the photographer's kit bag. Because its main optical characteristic is that it makes the world appear further away, it allows the photographer to squeeze more into a shot than he could otherwise. So it's great for group shots in confined spaces, cramped interiors and so forth. But wideangles also offer a few other qualities that make them useful in so many other ways – such as their ability to exaggerate perspective, to make close objects seem much larger than more distant ones, and the wideangle's tendency to distort the proportions of subjects if used in a certain way.**

Of course, there's no single type of wideangle lens. The strength of the effect varies according to the focal length of the lens – how 'wideangle' the lens happens to be. Unfortunately the terminology can be confusing.

The best way of understanding what effect a wideangle lens will have is to imagine yourself stepping back in time to the days of 35mm film. With this format what was known as a 'standard' or 'normal' lens was in the range of 45–55mm, with 50mm being the most common. This focal length was thought to have the same angle of view as the human eye, hence the name 'normal'. Anything shorter than this (say, 28mm) will encompass more than the human eye can see when fixed on a particular point. On the other hand anything longer (say, 200mm) will have a narrower field of view. In other words it will be telephoto.

With so called 'full frame' digital cameras, which have a 35mm frame -sized sensor, these same rules apply, but most digital cameras have a sensor that is smaller, so they record only a smaller portion of the centre of the image. In practical terms, this is the equivalent of cropping the image. This is good for telephoto lenses because you get even greater effective magnification, but not for wideangles, where the edges get cropped out. Most SLRs present a 1.5x or 1.6x magnification factor which must be added to get an accurate 35mm equivalence. So a 28mm wideangle, when fitted to a digital SLR with a 1.5x factor, would give the same field of view as a 42mm lens on a 35mm camera.

It's clear, therefore, that to achieve wideangle effects using most digital cameras you need a lens which is less than 20mm at the widest setting. Standard zooms which start at 17mm or 18mm have become popular for this reason, as they're equivalent to around a 28mm lens on a 35mm SLR. Lenses in the 12-24mm range are gaining in popularity too, giving an 18-36mm-ish equivalent range which makes that distinctive wideangle distortion possible.

Of course, the standard zoom lens that comes with most fixed-lens cameras starts at around a less-than-impressive 35mm (equivalent), though there are a few which offer a 28mm and even one or two that start at a very wide 24mm equivalent. >>

## The wide *view*

The most obvious use for wideangles is to enable photographers to get more in shot than they could otherwise, which makes them ideal for expansive views like this. Here, the roof in the foreground is even in shot, but suffers from extreme curvature known as 'barrel distortion' – an occupational hazard with wide lenses such as this, especially towards the edges of the frame.

YYePG Proudly Presents, Thx for Support

When shooting in Death Valley, USA, I noticed areas of cracked sand. Some were quite small, but by using a 16mm lens and getting in to within 30cm, the foreground dominates the picture. Depth of field has also been maximised by stopping down to f22.

FreePG Proudly

## Depth of *field*

Wideangle lenses have a far greater depth of field than other lenses, so you can focus on details that are very close to the lens while retaining sharpness in the background. In landscape photography this can be put to good effect by having some natural phenomena, such as a plant or rock formation, prominent in the foreground, while the rest of the picture stretches to the horizon. When taking this type of shot it can sometimes help to choose a low viewpoint, by kneeling or lying on the ground. This will greatly improve the drama of your shots.

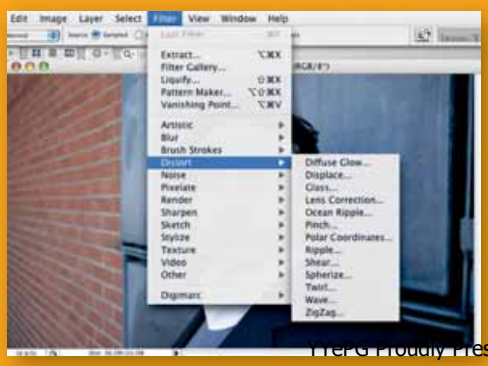
**Above:** It was essential that I retained sharpness throughout this shot as I needed the detail of the staircase to be sharp all the way to the ground floor. Wideangles offer great depth of field but I still stopped this 21mm lens down to f16 to make absolutely sure

**Right:** I used an aperture of f16 to retain maximum sharpness in this shot of spring flowers. My 16-35mm lens was set to 21mm and the low viewpoint has made the flowers appear to flow away from the camera, creating a great sense of perspective

*photoshop*

# How to simulate wideangle *in Photoshop*

If, as we have seen, it is not possible for your lens to be truly wideangle because of the size of the camera's sensor, we can simulate the effect in Photoshop CS2. In the shot below I could only get the background in if I stood further back from the subject. This has given him less prominence in the overall composition and given the shot as a whole a rather flat quality.




To help the subject stand out more, I chose **Filter > Distort > Lens Correction** in Photoshop. I then adjusted the amount of distortion by moving the 'Remove Distortion' slider. This has curved the edges of the frame and had the effect of making the subject's face more prominent in the frame, as it would have been if I had been able to go in close with the help of a wideangle lens. In the same window I then used the 'Transform' tool option to adjust the horizontal perspective.

I Feel G Proudly Presents, Thx for Support

## Distorted *perspective*

Wideangle lenses have the ability to distort the perspective of a subject so much that it can sometimes be hard to recognise.
The more wideangle the lens, the greater its propensity for distortion. At the extreme end, lenses as wide as fisheye are available. While such a wide field of view might be expensive and have its limitations, they can produce dynamic and eye-catching shots.

**Right:** The receding perspective effect of wideangles is ably demonstrated with the volleyball net in this beach shot **Below:** These look like two large stainless steel columns supporting this building. In fact they are quite small glazing bars but, because I placed the camera on them, using a 16mm lens, their size has been exaggerated

## Popular *wideangles*

### FISHEYE

So named for their bulbous front element, fisheyes are the most extreme wideangles, producing a 180° field of view but with such extreme curvilinear distortion that the picture itself becomes circular. Fisheyes are of limited usefulness (and expensive) but great fun.

### 12-24mm

Designed especially for digital SLRs with smaller-than-35mm sensors, they provide a range equivalent to an 18-36mm lens on a 35mm SLR or full-frame DSLR. This is the most useful range for shots that have a distinctive wideangle 'look' to them.

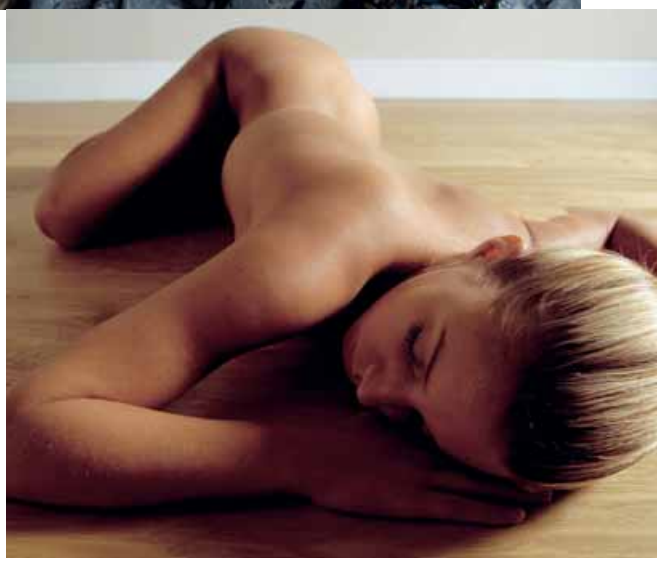
### 18-55mm

The standard lens supplied with most DSLRs these days tends to start at 18mm (the equivalent of 27mm on a film SLR) with an upper limit that varies from 55mm to 200mm. Useful for groups, interiors etc but not wide enough for distorted perspective effects.

### 28-105mm

On 35mm frame-sized cameras like my EOS 1DS, 28mm gives a similar field of view to 18mm on most consumer SLRs, but used on the latter a 28mm is equivalent to 36mm, which is barely wideangle at all. Lenses starting at 28mm are usually better at the telephoto end.

YYePG Proudly Presents, Thx for Support



**Above:** For this shot I opened up the 21mm lens to f2.8, but the background is still not completely blurred as it would have been with a telephoto. I made the main area of focus her face and the sweep of hair cascading down the rock, while still including the rest of her body

**Right:** By using a 24mm lens I have elongated this model's body to good effect. By posing her thigh and arm at the same angle, a shot of strong sculptural lines has been created

## Wideangles *and the nude*

Wideangles can be used very effectively with the nude for some very striking results, but they must be used with care. Because they have such a wide field of view, it's easy for the body to become unnaturally distorted. For example, if feet are close to the lens they can appear disproportionately large. This can be used to your advantage but it requires perfect framing. Another element to beware of is depth of field. Because it is so great, more of the background will be in focus – whether you stop down or not. This can result in the eye becoming distracted from the main subject. The extreme field of view can also result in too much being included in the frame, with the body being submerged in a lot of unwanted details.

YYePG Proudly Presents, Thx for Support

## John's *Top Tips*
### *wideangles*

1. It is easy to create distortion using wideangle lenses, especially when taking portraits. Although this might look fun it won't be very flattering.
2. Look for new angles and interesting viewpoints. Remember that a low viewpoint will accentuate a person's height, whereas a high viewpoint will foreshorten them.
3. Wideangles have greater depth of field than other lenses but this can be enhanced further by stopping down, particularly when there is a strong element of foreground interest.
4. Choose the aperture priority setting on your camera. This gives you far greater control over the depth of field.
5. Use a sun shade rather than a lens hood with extreme wideangle lenses. This clips on to the camera or lens and has a flexible arm that allows you to vary the extent of the sun shade in much the same way as using your hand to shield your eyes.

## JOHN *FREEMAN*

John's clients include some of the country's biggest companies. He has illustrated well over 100 books, covering subjects as diverse as cookery, health, travel and home interiors. He has also sold more than a million copies of his glossy photography manuals, of which he has written more than a dozen.

John also sells fine art photography from his own gallery in London's prestigious Oxo Tower. He is fully digital, and mainly uses a Canon EOS 1DS SLR with a variety of lenses. John's website is at:
**www.johnfreeman-photographer.com**

**For more John Freeman books see our website whatdigitalcamera.com/books**

# Take That!

## Spring is in the air, and the flowers are starting to bloom. Sounds like a perfect time to try some nature close-ups. **Alan McFaden** shows how

**Taking pictures like this one is not as easy as it may seem. Besides the technical challenge of getting sharp pictures at such close range, there's the fact that insects have an annoying habit of flying away when you get up close. But don't let that deter you.**

The sight of WDC's studio photographer Alan McFaden without a camera is something few souls have witnessed. When he isn't doing all our product photography he's out in all weathers taking pictures, or trawling round boot fairs looking for photographic bits and bobs to play with. Which is how he came to develop a simple set-up and technique which enables him to get shots such as this one with relative ease.

'I bought a small flashgun for £1 at a boot fair,' he explains. 'I attach this to the end of my macro lens with a blob of Blu Tack, pointed slightly downwards, and plug it into the sync socket. I've worked out that I need an aperture of f/32 for a correct exposure. I can then go up to a flower, fine tune the focus and shoot within a second or two. The small aperture ensures adequate depth of field and the flash provides the illumination and freezes any movement.

'Flashguns like this are common at boot fairs and I think they give a better light than ringflash, because they're more directional.'

## 1 Macro Accessories

**A wide range of accessories is available for the macro photographer. Here is a selection...**

**MACRO LENS**
The best option if you can afford it. They enable you to focus in one continuous movement from infinity down to 1:1 scale lifesize. All the major manufacturers, and independents such as Tamron and Sigma, produce their own macro lenses.

**TUBES, BELLOWS AND CLOSE-UP LENSES**
There are several ways of modifying an existing lens to achieve closer focusing, including increasing the distance between lens and body using extension tubes or bellows, or by screwing a close-up lens onto the filter thread. Both solutions are cheaper than a macro lens though not as convenient.

**FLASH OPTIONS**
Ringflash is popular among macro photographers. Shaped like a doughnut, it surrounds the lens for soft, all-around illumination. Macro flashes have separate flashtubes on each side which can be individually adjusted. Small flashguns can be used too, if they're placed close to the subject.

## 2 Getting close enough

Alan used a Canon EOS 1DS fitted with the Canon 100mm f/2.8 macro lens. As the camera has a full-frame digital sensor there is no magnification factor, but with APS or DX-sized sensors this lens would provide a field of view equivalent to around 150mm. While this enables you to shoot from further away, so you're less likely to frighten off your intended target, a 50mm or 60mm macro lens would give you the equivalent of about 75-90mm, which is sufficient.

## 3 The flash set-up

Using flash proves a double benefit: it freezes subject movement, and allows you to use very small apertures for maximum depth of field. Ringflash is designed for this purpose but it is expensive, unlike Alan's system which costs very little. Using Blu Tack stick a small portable flashgun onto the end of the lens and angle it downwards slightly. A rubber band will provide extra support. Plug the lead into the sync socket, or the hotshoe (via an adaptor). NB: See Top Tips regarding voltage issues.

YYePG Proudly Presents, Thx for Support

Image: Alan McFaden

**Above:** Alan McFaden photographed this honey bee on a Convolvulus flower in his garden. Keeping your garden well stocked with flowers and the right kind of plants ensures you'll have a ready supply of subjects for photography right on your doorstep

## 4 Camera *settings*

At very close range you get little depth of field, and you'll need every millimetre. Your subject may be moving and you'll be trying to focus and shoot very quickly. Even a small flashgun when it's inches from the subject will be bright enough for a very small aperture to be used, but test your own to determine the exact exposure. If you can't stop down enough, reduce the output by taping tissues over the lens. Set manual exposure mode, and a shutter speed of at least 1/125sec (but within the max sync speed) to eliminate any motion blur from the flash light.

## 5 Taking the *pictures*

You might think autofocus would be the quickest option, but for this sort of work manual focus is much faster and eliminates any chance of the AF 'hunting'. Set the lens to its mimimum distance, or whatever distance gives you a composition you're happy with. When you see a bee (or other flying insect) land on a flower, move right in close, looking through the viewfinder until the subject snaps into focus. You may need to quickly fine tune the focus before shooting, but don't take too long! You might not get it right first time, but do persevere. >>

YaeL-G Proudly Presents, Thx for Support

## 6 Photoshop *Enhancements*

Once you've managed to capture a shot or two, you'll probably want to tidy them up a bit on the PC. Depending on how good your technique was at the shooting stage, you may need to crop any unwanted edges out so that, for example, the flower completely fills the frame, and you'll almost certainly need to apply some levels, colour correction and perhaps a small increase in saturation – though as usual with these things, less is usually more. In fact this image is full frame and needed no cropping at all, but that's what comes with practise!

## 7 Apply *sharpening*

While no amount of software-based sharpening can compensate for an image not being focused correctly, most images benefit from a degree of sharpening before printing. The obvious way to do this is to select the Sharpen filter from the Filters menu, but these are crude and offer little control over the effect. Instead, select Unsharp Mask (from the same menu). Adjust the Amount slider but don't go mad – somewhere between 50 and 100 is usually enough. If printing, set the Radius to 2.0 and the Threshhold to 1.0 or zero. Use the preview pane to check the result.

## TOP TIPS **Successful** *macro bug shots!*

Images: Alan McFaden

**1 ATTRACT YOUR SUBJECTS**
Make your garden attractive to bees and insects. Plant lots of flowers and choose varieties that attract wildlife, such as Buddleia and Sunflowers

**2 VISIT PUBLIC GARDENS**
If you don't have a garden visit your local park, and landscaped gardens open to the public such as those run by the National Trust.

**3 MAKE SURE THE VOLTAGE IS SAFE**
Scour boot sales and local papers for small flashguns, but check the voltage before fitting one to your digital camera to ensure its compatable – *www.botzilla.com/photo/strobeVolts.html* lists the voltages for most old flashguns.

**4 TRY SLAVE FLASH**
For more adventurous lighting try placing a flashgun on a slave trigger (easily obtainable from photo retailers) mounted on a support near the plant and firing it via the on-camera flash

**5 KEEP YOUR EYES PEELED**
Look under rocks, fallen logs and so forth for suitable subject matter. Keep your eyes open for interesting creepy crawlies in your garden.

**Do you have an interesting technique you'd like to share? Then send it us at the address on page 19**

SIGMA

# OUR WORLD

**MICHAEL MELFORD SHOOTS THE WORLD WITH A SIGMA LENS**
MICHAEL MELFORD: Born in the U.S. in 1950. Worked as a contributing photographer to LIFE magazine and other major publications. Internationally renowned for location photography. Won Best Editorial Photography award from the Caribbean Tourism Board in 2003. Photo data: SIGMA 17-70mm F2.8-4.5 DC MACRO lens, 1/15 second exposure at f2.8.

## Still capturing images long after the sun sets in the Caribbean

The majesty of twilight on the island of Saba in the Caribbean is breathtaking. Only a large aperture lens can capture it in its full glory. The SIGMA 17-70mm zoom lens is just such a lens. Brightness is excellent, with maximum aperture of F2.8 for wide-angle shooting, with a minimum focusing distance of 20cm / 7.9 inches, it has an amazingly close focusing capability at all focal lengths. Designed specifically for digital SLR cameras, the lens image circle is designed to bring the best out of image sensors of APS-C size, used in digital SLRs. Optical design and lens coating is optimised precisely to reduce flare and ghosting. SLD (Special Low Dispersion) coated glass and aspheric lens elements maintain superior image quality throughout the entire range. The lens design incorporates an inner focus system making it particularly suitable for use with circular polarizing filters and petal-shaped lens hoods.

NEW

Available for SIGMA, Canon, Nikon-D, Konica/Minolta and Pentax digital SLR cameras.

FOR DIGITAL

**Digital SLRs can capture great close-ups with this large-aperture standard zoom lens.**

# SIGMA 17-70mm F2.8-4.5 DC MACRO

*Vignetting (a darkening of the corners of the image) will occur if the lens is used with digital SLR cameras with image sensors larger than APS-C size or 35mm SLRs, and APS SLRs

YYePG Proudly Presents, Thx for Support

ΣSigma Imaging (UK) Ltd, 13 Little Mundells, Welwyn Garden City, Herts. AL7 1EW. Tel: 01707 329 999 Fax: 01707 327 822
www.sigma-imaging-uk.com E-mail: sales@sigma-imaging-uk.com

# dream MACHINE Part Two

## In this second part of our series on how to make Photoshop run faster, **Philip Andrews** takes a closer look at three key hardware players in the Photoshop speed game – CPUs, RAM memory and motherboards

**After overviewing the main components that make up a typical Photoshop machine in the previous issue, here we take a closer look at the CPUs (or processor chips), RAM memory and also motherboards. A little understanding of these components and how they interact with Photoshop will pay big dividends in speeding up your editing work.**

### PROCESSOR: THE ENGINE THAT DRIVES THE BEAST

For a long time determining the best processor to use for great Photoshop performance was a simple matter of picking the chip with the fastest clock speed. So if there were a choice between a 2.8Ghz and a 3.6Ghz chip, selecting the higher number would ensure speedier processing. To a certain extent this way of thinking still holds true. The top-line CPUs with high clock speeds from AMD, Intel and Apple all provide faster processing results than the slower mid-range chips when they are set to work on a range of standard Photoshop tasks. But a few years ago pixel-pushers noticed that adding a second processor produced remarkable results. Including an additional CPU meant the processing workload could be broken in half and two 'threads' of instructions could be processed at once. They also found that with processor-intensive Photoshop tasks such as filtering, a dual processor system would easily outperform a computer based on a single processor.

For a long time the only way to access the greater performance afforded by a twin processor machine was to buy server or workstation-based hardware. Apart from Apple users who could buy multi-processor machines off the shelf , or via the Apple store online, most Windows users had to opt for ill-fitting server solutions to gain the option for more than one processor slot on the motherboard. These machines, though, lacked the fine tuning in the graphics side of things.

### TWO CORES ARE BETTER THAN ONE

With the promise of faster Photoshop performance it is no wonder that, given the choice (and with no budgetary

YYePG Proudly Presents, Thx for Support

## Intel *inside*

AMD and Intel both manufacture single and dual-core CPUs which can be installed in single or twin-processor configurations. Although Apple doesn't produce its own dual-core chips, the company is now shipping dual core Macintoshes using Intel CPUs and it also has off-the-shelf twin processor systems in the form of its Power Mac computers.

considerations in mind), most high-end users opt for twin processor machines while the rest of us who exist on modest incomes have to be content with single processor set ups. Until now. AMD and Intel have invested heavily in 'dual core-single chip' technology. This new breed of CPUs have two processing or CPU cores on a single chip, providing similar processing power to twin processor units, at a more economical price point. The argument for dual core processors is so compelling and the results so convincing that now even Apple is releasing its latest Macintoshes with dual core Intel chips. Comparison tests carried out by all three manufacturers show that with CPU intensive Photoshop tasks, such as sharpen or blur filtering, dual core processors outperform single core chips by between 5 and 50%. The degree to which a dual core chip will help with Photoshop processing depends largely on how CPU intensive the editing tasks are but in most situations dual core wins out.

In addition to dual core technology Intel also has a system that it calls Hyper-Threading (HT). This technology operates on a single core but takes advantage of the multi-threaded nature of the Photoshop program to more efficiently process editing tasks. By adding HT technology to its dual core chips (look for the Extreme Edition chips) Intel claims to provide the equivalent of four logical processors all crammed into a single chip enabling truly amazing processing figures. Expect to see continued performance gains in Photoshop and Photoshop Elements as successive releases of these programs take advantage of the hardware changes over the past few months.

## '...dual core chips outperform single core chips'

### *WDC POWER TIP:*

***For the best power overall, choose twin processors and, if possible, twin dual-core processors. For a balance of power and economy, select a dual-core chip and for an entry level option choose the fastest single-core chip you can afford.***

### MOTHERBOARD: THE LINK BETWEEN ALL COMPONENTS

For most of us the motherboard is one of those system components that is largely ignored. After all it doesn't have the glamour of the newest processors nor does it have the obvious appeal of a wide screen monitor, but glamorous or not, the motherboard is a key speed-increasing technology in any photo-editing computer system. The chipsets resident on the motherboard control the way in which the various components in the system work together. Often manufacturers release new board chipsets to coincide and work with new processor designs. When selecting a motherboard, check that the chipset is matched with the processor and that it supports CPU features such as dual core and/or Hyper-Threading. Also pay particular attention to speed of the system bus (connection between component parts) and the total amount of memory that can be installed and addressed. Aim for at least 2Gb, an option to install 4Gb or even 8Gb being preferable.

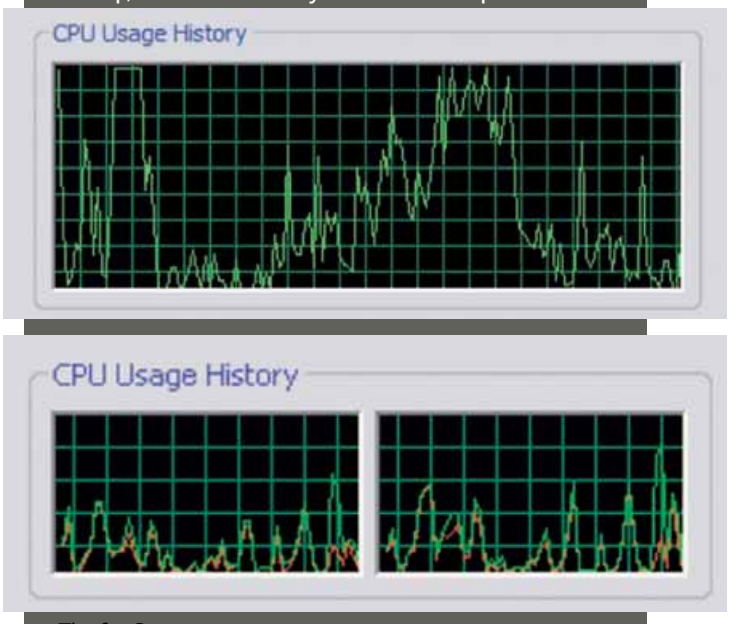
Next, look to the type of interface that is used for plugging in graphics cards and attaching hard drives. For graphics the AGP 8X connection is okay but the newer PCI Express X16 is preferable as it provides 3.5 times the performance of the older system. In terms of hard drive connections try to find a board with both a standard SATA (Serial ATA) link as well as a RAID 0 controller (for better scratch disk performance).

### BUT I DON'T GET TO CHOOSE

In some way Macintosh users have it easy. I'm referring to the fact that system choices, like motherboard selection, have already been made for them. Unlike with most Windows- based systems where you can choose the components that you want included in the system, the Apple way is to provide complete system solutions based on the user's needs. This system-based solution approach means that Macintosh users don't get to choose their own motherboard. The upside of this is that Apple does the hard work of matching >>

## Distribution *graphs*

The top graph shows the Photoshop workload on a single core processor, and the bottom on dual core. Notice the size of the peaks where the processsor is running at capacity on the single core chip, but more efficiently on the dual core processor.




YYePG Proudly Presents, Thx for Support

chipsets, video interface, memory capacity and bus speeds with the needs of a typical user and in doing so provides great solutions that work 'straight out of the box'. This removes the problems faced by some Windows users when their system components don't work together as they are supposed to. The downside of this approach is that the ability to customise a Mac solution is limited. When checking out which motherboard to buy, try to match the features with your needs and user level.

### RAM MEMORY: GIVE ME THE ROOM TO MOVE

The short answer to the question that most Photoshop users ask about RAM ('How much do I need?') is 'as much as you can afford'. It is no secret that memory is a key speed component in any Photoshop dream machine. The efficiency with which the program performs even the most basic changes is directly related to the amount of RAM it has at its disposal. Obviously a power user playing with 60Mb files regularly will need more RAM than the average photographer who just wants to edit the photos from his/her 6-megapixel camera, but no matter what level user you are, the old memory adage that 'the more you have, the faster Photoshop will perform' still holds true.

> 'It's no secret that memory is a key speed component'

As a rough guide 384Mb is the absolute minimum for both the Macintosh and Windows platform. This amount is the base level of memory recommended by Adobe in its minimum specifications for the program. And yes, Photoshop will load and run with such a small amount of RAM but the program and the operating system will hog so much of this space that even the most modest editing tasks will be slow and cumbersome. A more realistic figure is 512Mb which is suitable for the occasional user who works with single files of up to 10Mb in size. Moving up a step, if the same user has a system with 1Gb of RAM (2 x 512 Mb) they would find that Photoshop would be noticeably more responsive and efficient to work with. Professionals, or dedicated enthusiasts, working with 20 - 30Mb files should install at least 1Gb of RAM as a base figure. Increasing this amount to 2Gb will provide real gains in terms of workflow speed and more efficient multi-tasking (working on several documents at once) as well.

Running Photoshop CS2 on a 64-bit operating system, such as Apple's OSX or Windows XP 64, provides the added benefit of enabling the program to access more memory than has previously been possible. Professional users employing these setups can take advantage of RAM levels beyond 2Gb which provides real gains in complex environments where very large documents are altered regularly. It is not unusual for these 'super' users to have 4, 8 or even 16Gb of RAM on their work machines. The sheer size of the RAM available to Photoshop along with the better memory handling features available with 64bit machines means working with very large files requires substantially less scratch disk action. And as RAM is faster than disk memory for Photoshop's scratch disk this means substantial efficiency gains when dealing with large and very large files.

## MEMORY JARGON Buster

**BUS**
A collection of wires through which data is transmitted from one part of a computer to another.

**CACHE**
A storage location for information that is generally temporary and which needs to be accessed quickly. Most computers have cache memory that holds some of the information from main memory. When the processor needs the information, it takes it from the faster cache instead of the slower main memory. Cache memory greatly increases the speed of a computer by storing data that is most often accessed.

**DDR**
Double Data Rate is a useful feature of some SDRAM that allows the memory chips to send and receive data twice as often as other memory.

**DDR2**
The specification for the second-generation DDR memory which includes higher speeds and greater bandwidth.

**DIMM**
Dual In-Line Memory Module is a circuit board on which RAM memory chips are mounted. A DIMM is capable of transferring 64 bits of data, where the older SIMMs (Single In-Line Memory Modules) could only transfer 32 bits. It is the DIMMS memory boards that fit snugly into the memory slots on PC motherboards.

**DUAL-CHANNEL**
This term describes a motherboard with two 64-bit wide channels. In order to use this feature fully, one should use two memory DIMMs of equal densities (size, speed and make).

**RAM**
Random Access Memory: volatile memory used as the main memory in a computer that temporarily stores data and processes information.

***Courtesy of The RAM Guy at www.corsair.com***

## Mother board

Intel, Asus, MSI, Giga-Byte and Abit all produce motherboards for Windows-based systems. For the latest information on matching CPUs and chipsets check out the web sites of the major board manufacturers. Most have web wizards that match CPUs and motherboards.

### WDC POWER TIP:

***Ensuring you use the RAM you have wisely is also key for great performance so check out our tips for optimising your RAM setup in the 'Faster Photoshop at No Cost' page on our WDC website. Just click on Downloads in the left-hand side of the home page. WDC***

YYePG Proudly Presents, Thx for Support

SIGMA

# OUR WORLD

**In the Swiss Alps, sublime solitude heightens the spirit of adventure.**
Robert Bösch: Born in Switzerland in 1954. Earned a degree in geology at the University of Zurich. Is a trained mountain guide and highly regarded freelance photographer. Shoots mainly outdoor subjects. His photographs have appeared in various magazines and other publications, as well as advertisements. The International Mountain Book Prize recipient.
*Photo data: SIGMA 18-200mm F3.5-6.3 DC lens. 1/10 second exposure at f4.8.*

## Robert Bösch shoots the world with a sigma lens

An unforgettable image is worth an extraordinary risk. The passion and perseverance of the photographer is matched only by the precision and versatility of the Sigma super-zoom lens. The lens image circle is specifically designed to suit the APS-C size imaging sensor of a digital SLR. Multi-layer coated SLD (special low dispersion) glass and aspheric lens elements achieve superior image quality throughout the entire zoom range by controlling flare and ghost. The lightweight and compact construction is housed within a truly remarkable streamlined lens barrel measuring 70mm in diameter by 75.6mm/3in. in length and weighing just 385g/13.6oz. (Nikon mount). Minimum focusing distance is 45cm/17.7inches whilst maximum magnification is 1:4.4. A high-performance inner focusing system makes this SIGMA lens particularly suitable for use with the matched petal-shaped lens hood, which is included, and circular polarizing filters.

Available for: SIGMA, Canon Eos, Nikon-D, Konica/Minolta, and Pentax digital SLRs.

FOR DIGITAL

**The world`s smallest and lightest 11.1X high power zoom lens in its class, exclusively designed for digital SLRs**

# SIGMA 18-200mm F3.5-6.3 DC

***Vignetting (a darkening of the corners of the image) will occur if the lens is used with digital SLR cameras with image sensors larger than APS-C size or 35mm SLRs, and APS SLRs**

YYePG Proudly Presents, Thx for Support

ΣSigma Imaging (UK) Ltd, 13 Little Mundells, Welwyn Garden City, Herts. AL7 1EW. Tel: 01707 329 999 Fax: 01707 327 822
**www.sigma-imaging-uk.com E-mail: sales@sigma-imaging-uk.com**

# the Help file

## A problem shared *is a problem solved!*

Send your questions to us at **wdchelpfile@ipcmedia.com**

Nigel Atherton

Ian Burley

Jamie Harrison

Steve Crabb

## Choice *Of Three*

**From:** Paul Curry

I want to buy a camera to photograph family and holidays, including my young sons playing football and doing karate. From your listings I've narrowed it down to the Sony R1, Fuji S9500 and Olympus E500. Which would you recommend? Does RAW give better images? Which of these do RAW? Finally, am I better off having the images professionally printed or buying a good printer myself? If it's the latter I've read about dye-sub printers that seem to make the images last longer, such as the HiTi 641PS. I believe Kodak does one too, but it's more expensive. How do they compare to inkjets?

***JAMIE REPLIES:*** *These cameras are all very good but very different. For best results, I'd go for the Sony R1, which I think is superb. But for versatility an SLR is best, as you can more easily adapt it to suit the photography you're doing by adding lenses, flash etc – especially important for shooting sport, as the 120mm lens on the R1 would probably be inadequate. RAW files (those unprocessed by the camera) do offer potentially better quality but they need more work on the computer to achieve it. All the cameras you mention have RAW options. Finally, for ultimate print quality I'd go for inkjet, which nowadays offers better print longevity than both dye-sub and silver prints, especially if using the latest inks and papers from Epson, HP or Canon.*

Pic: The New York Dolls, by Phil Wallis at NME

## It's only *rock'n'roll*

**From:** Damian

I have a Nikon D100 and SB800 and I take photos of bands in a music club. The bands are OK with me using my flash but the club isn't. I'm quite new to digital and not sure what settings are best for low light and the coloured lighting clubs have. I've set the camera to ISO 1200, 1/250sec, auto white balance and still get strange effects. I'd like to get the sharpest, clearest and most natural pictures I can. Can you help?

***NIGEL REPLIES:*** *We asked NME's staff photographer Phil Wallis, who does this sort of thing for a living. He says: 'When you start out shooting bands professionally a lot of venues and artists insist on the "3 songs, no flash" rule. This means you get about 12 minutes to shoot the band using just the light available. This rule is applied from Glasgow Barrowlands to Twickenham Stadium and all points in between, so it's vital to know how to shoot without flash. Having said that, there are some circumstances when venues will let you shoot with flash so try to practise both styles as much as you can.*

*'When shooting without flash, I favour sticking my EOS 20D on Aperture Priority (at the widest aperture I can) and rating the ISO at 800. I rarely uprate to 1600 as I don't like the level of grain. If you're still only able to get a relatively slow shutter speed, watch how the performer moves! Also watch the lighting patterns and change your metering accordingly (if the artist has a spotlight on their head it can get horribly bleached out if you get it wrong!) Practice makes perfect, and it's a lot cheaper now everything is digital!'*

YYePG Proudly Pr

# Camera for safari

**From:** Ben Speke

Nigel Atherton

I'm taking my family to Africa later in the year for a once in a lifetime safari holiday. Much of it will be vehicle based but there will be some walking and horseback riding. I'm looking for a camera that I can carry in a pouch on a belt. My questions are:
1. Optical zoom: is 3x enough? I've already got a Canon Ixus 400.
2. To take photos from a horse will I need anti-shake technology?
3. There are no recharging facilities where we're going, so I'll need AA cells.
4. It must be very simple to use – I'm a techno-moron.
5. I'm looking to spend about £500.

***JAMIE REPLIES:*** *A few compact models offer 10x zoom and accept AA batteries. The £250 Nikon S4 has the equivalent of 38-380mm. It's also small enough to carry in a pouch.*
*A more traditional design comes in the shape of the £230 Olympus SP-500UZ, which offers the same zoom size. However, neither of these has any stabilisation. For that you should look at the new Panasonic TZ1, which has a 10x zoom covering 35-350mm and a Lithium-Ion rechargeable battery.*
*The final option is the slightly larger Canon S3 IS, which ticks all the boxes and would fit into a holster-type pouch. This has a 36-432mm lens, auto as well as manual controls, image stabilisation (though I would still recommend the horse be stationary), takes 4xAAs and costs around £449.*
*Both the Canon and Panasonic cameras are brand new and we haven't had them in for review yet. Look out for them in a forthcoming issue.*

## Top Tips

**GET IT RIGHT FIRST**
*Digital image-editing software can correct many mistakes but for maximum image quality, get it right in-camera first. Even RAW files will be better if the exposures and white balance are correct when you shoot. In addition you will cut down on the time it takes to correct images on a computer.*

# Minolta replacement

**From:** Mrs M Day

I own a Minolta 7000i and I'd like to renew it for a similar one new, but am unable to find a store that sells them. Minolta is unable to help.

**From:** Mathew Renwick

I bought a Minolta AF7000 in 1994 and had wonderful fun with it. The quality of my photos magically improved beyond recognition. Unfortunately it's gone wrong. I like the idea of replacing it with a digital but would I be able to buy anything to compare with it for not too much money?

***JAMIE REPLIES:*** *The 7000i is a 35mm camera from the 1980s and 1990s, and very nice it was. Unfortunately you can't buy them new any more, but you may be able to still get hold of the Dynax 5D or 7D (the closest digital equivalents) – though since the demise of Konica Minolta's camera division, remaining supplies are selling like hot cakes and won't be renewed. Sony's forthcoming DSLR will use the same mount, and we'll keep you posted as we get news.*

YYePG Proudly Presents, Thx for Support

# Byte Size

## Scanning advice

**From:** John Carlisle

I've got about 800 prints and slides and now I've retired I'd like to digitise them. Could you tell me the best scanner to buy for this? The prints are mostly 6x4in enprints and the slides, which number about 300, are mainly Kodachrome from the 1970s. My budget is about £500.

**Nigel replies:** *It's a good job you've retired John, because that's one hell of a job you've got there. I'd cancel all engagements for the next few years! Aside from the scanning you'll probably have to do quite a bit of post scanning work too, especially on those old Kodachromes which may have lost a bit of their punch by now. Your best bet would be the Epson F3200, a 3200ppi film scanner which also scans 6x4in prints. It's a great scanner (our scanner of the year) and you'll have just enough change from your budget to buy a Sudoku book, to keep you occupied during all that waiting. Alternatively you could spend your £500 paying someone else to do them. Most labs can do this for you. Jessops, for example, charges 50p per scan. It would probably end up costing you as much, and you wouldn't have the scanner to show for it, but you might get to keep your sanity.*

## Super Zoom

**From:** Paul Ballinger

I want to buy a superzoom. Should I buy the Panasonic DMC FZ7 or spend that little bit more and go for the Panasonic FZ30 or Fuji s9500? Apart from the size, the increase in megapixels and manual zoom capability, can you tell me, for a keen amateur, what the main differences are? My main interest is wildlife photography. I am not considering a DSLR.

***NATALIE REPLIES:*** *The FZ1 received a favourable review last month. Its main benefit is a higher ISO, up to 1600, compared to the FZ30's ISO 400. However it doesn't offer RAW if that's important to you. The S9500 has both RAW and an ISO of 1600, and produces less image noise than both Panasonic cameras. I found it a little quirky to handle though, especially the menu. On the downside, for wildlife it has a shorter focal range (28-300mm) compared to Panasonic's 38-432mm, and lacks image stabilisation. Overall, for wildlife, my vote would be for the FZ30.*

## Slim Shady

**From:** Piers Dornay

I can barely see the LCD screen on my Canon 300D when I use it outdoors on sunny days. Is there anything I can do?

***NIGEL REPLIES:*** *Hoodman and Delkin make a range of pop-up LCD shades to fit most SLRs. See our Hoodman review on page 48. The Delkin version will be reviewed next month.*

# EOS 5D *or D200?*

**From:** Kevin Skinner

After a couple of years of faithful use, I am considering upgrading my Canon EOS 300D and read your head to head article in Issue 107 between the Canon 5D and Nikon D200. I'm looking at the Canon but the line 'Of course, there are other considerations when deciding between cameras...the range of lenses and accessories you may already own' made me think again. Doing my sums it looks as if it would be more cost effective for me to buy myself a Nikon D200, replace my Canon lenses with similarly specified Nikon ones (I would have to anyway because my digital lenses are not suitable for the 5D), and still have money left to buy one or two quality lenses. All this for, roughly, the same price as upgrading to the Canon 5D and a somewhat negligible difference in image quality. When considering parting with nearly two grand (the price of the Canon) I want to get it right. Is my logic flawed?

***JAMIE REPLIES:*** *No Kevin, it makes perfect financial sense. The EOS 5D is great, but expensive, and to get the most out of it you'll need really good lenses. And they're expensive too. If you'd spent a lot of money in the past investing in those lenses, as well as flashguns and so on, then the Canon 5D may be a good option.*

*If not, then financially the Nikon is a better buy. In terms of handling and use I preferred it, though that is somewhat subjective. The question is, 'Is the EOS 5D's slightly superior image quality worth the extra expense?' For most enthusiasts, probably not. Just to throw a spanner into the works though, have you considered the new Canon 30D? It's a similar price to the D200, will take your existing Canon lenses, and is still a major step up from your 300D. We'll be comparing it with the D200 and Fuji S3 Pro in our big head to head test next month.*

# Shooting *assignment*

**From:** Philip McConnell

I'm working on an assignment for my Essential Skills course. The working title for my project is 'Which Digital SLR would be a good replacement for my Nikon F80?' I already have some Nikon lenses so I've looked for DSLRs that will work with them. The Kodak DCS Pro SLR/n was one, but I've been told that it doesn't do well outside the studio. Then, in your Assault on the Sensors article (June 2005) the Fujifilm FinePix S3 Pro was the best. Other reviews I've read praise its performance. The only other DSLR I've looked at in the same depth is the Nikon D2X because of the way it takes a dark frame after long exposures. Can you tell me how good both cameras are at long exposures of the night sky (astronomy) and landscape in low light levels. This is what I will be using the camera for most of the time.

***NIGEL REPLIES:*** *Is this a theoretical project? If so I'd rule out the Kodak DCS Pro SLR/n (now discontinued anyway), the Fujifilm S3 Pro and Nikon D2X because they're all professional cameras and the F80 isn't. The nearest digital equivalent to the F80 is the Nikon D70s. However, if you actually plan to buy one, that's a different matter. Because if you want a pro-spec DSLR and can afford one then why not? The Fuji S3 Pro did well in our sensor comparison but that looked at image quality only, and not at the features, performance, handling and other factors that we take into account in a normal test.*

*The S3 Pro is based on the F80, so you'd find it easy to get to grips with. The D2X is, frankly, a much better camera, but then it is twice the price. What you haven't mentioned is the Nikon D200 which is similar in price to the S3 Pro but is much better built and specified than the Fuji. What I can't say is whether the image quality is better, as we haven't yet done our direct comparison – see next month's head to head for that. For low-light shooting, however, neither would be as good as the D2X, as that has better noise control.*

## Top Tips

**ACTION MAN**

*If you're performing the same edits to a set of images, make an action in Photoshop to save time. Open Window>Actions then click on the new action button and name it. Click the record button and perform the set of edits on the first image. Stop recording when done. Select the action and click the play button on subsequent images.*

# Dynax *or EOS?*

**From:** Karl Simmonds

I mainly shoot candid portraits and wildlife photography though would like to do more sports and landscapes, and have narrowed the choice of new bodies to the Konica Minolta 5D and the Canon 350D. Though I'm leaning more towards the 5D because of its Anti Shake system, I'm a bit hesitant, what with the Sony takeover. If in a couple of years I wish to change the body it may mean changing the lenses also. I'm also worried about the 5D's shutter noise for wildlife photography, and how quick the AF would be with a non-Minolta lenses (Sigma). Would the lack of HSM on certain lenses affect things much? I understand the 5D's 18-70mm lens is better than the 350D's, and was thinking of using this for landscapes and then going for the Sigma 28-200/300 for general use, macro and portraits; combined with the Sigma 135-400mm APO or the 175-500mm APO for wildlife and sports. I like the idea of having one lens for both. So I am thinking more about the Sigma 50-500 EX DG as the cost is very similar to the two-lens choice. What do you advise?

***JAMIE REPLIES:*** *Sony has promised to maintain the KM mount, so theoretically the 5D is future proof. Although there's no guarantee, Sony is certainly in a strong position. I have used the Sigma 50-500mm and it is a nice lens, but heavy. I prefer to have a set of smaller lenses, which I can pick and choose for different types of photography. If, for example, I'm just going for a day out in London, I'll choose a standard zoom, but if I'm going to the zoo, I'll take a longer zoom. This way, I'm not breaking my back carrying inappropriate equipment.*

YYePG Proudly Presents, Thx for Support

# Panorama no drama

**From:** Mary McBride

I like country walking and want a digital camera to take with me. I love the shape of panoramic photos but do you need a computer to make them? Is there a camera that will take panoramas, like my APS camera?

***NIGEL REPLIES:*** *There are several options. The best would be the Panasonic LX1, the first (and so far only) digital camera which has a panoramic shaped sensor, so you get proper panoramic photos right out of the camera. You can switch to normal shaped images if you want to. It costs about £350 and is quite small, so would make an ideal companion for walking. Several cameras produce panoramic shots in the same way your APS camera did – by cropping the top and bottom off the image recorded by its standard-shaped sensor – like in-camera scissors. The third option is one of the growing band of cameras that let you take a series of consecutive images of a scene from left to right and then automatically stitches them together, in camera, to make one long panorama. With this method there's no limit to the width of panorama you can get (up to 360° anyway) but it requires more work on your part. Be careful when shooting to keep the camera level, to overlap each image, and ensure each consecutive shot is aligned with the guide marks on the LCD screen, or you'll see the joins between the shots. If this doesn't faze you look at models from HP, Nikon, Canon and Pentax, many of which offer this feature.*

# Worn Out

**From:** Trish Ryall

I want a compact digicam for about £400. I have no technical knowledge but take thousands of photos and may take a course. A problem I have encountered with compact cameras (not digital) is that I wear out the shutter release button; this has happened on two or three occasions in the past few years. Personnel in camera outlets have said that this is because I take such a high volume of photos. I take a lot of landscape pictures and pictures of all family and other events. On holidays I normally take about 25 rolls of 36exp film.

***JAMIE REPLIES:*** *I suggest a metal-bodied camera such as the Canon Powershot S80. This also has a wideangle 28mm lens, ideal for landscapes. Digital camera owners tend to take a lot more photos than film photographers thanks to the ease of the delete button and the lack of film cost, so beware, you'll probably take a lot more. Also, buy plenty of high-capacity memory cards or a portable hard drive for clearing your media card on the move, and a spare battery. All consumer products have an inbuilt life span, and it's logical that higher than average usage will shorten that life. The good thing is that digital cameras are getting better and cheaper and the money you save on film makes buying replacements more affordable.*

Martin Evening's

# Digital Surgery

**What's wrong with this picture?** Martin formulates his diagnosis and nurses it back to health

## Bali good!

**By** Richard Sisson

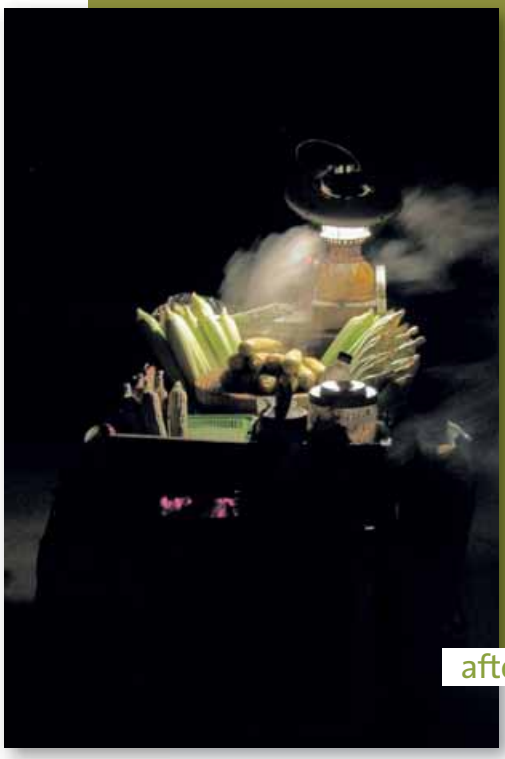
The attached photo is from our holidays in Bali in 2005. All the pictures were taken by my Canon Powershot S50 using f/2.8 and ISO400 (no tripod). All pictures are from Jimbran Bay. We hope you like them (we love the gasoline lantern).

before

***MARTIN SAYS:*** *At first I thought this might have been a studio shot, until I realised what the subject was. I like the way the steam or smoke is backlit by the lantern and captured in blurry motion, as this adds a kind of ghostly quality to the picture. The main problem though is the high contrast that has hidden a lot of the shadow detail in the scene, and I do feel that more could be done to bring out some of this information.*

## Here's how

**STEP 1** In Photoshop CS there is a tool called Shadow/Highlight (in the **Image > Adjustments** submenu). There is an equivalent tool in Photoshop Elements, but the Photoshop version has more options and the settings I used here allowed me to apply a correction to the shadows that revealed more detail in the darker areas.



after

**STEP 2** As well as lightening the shadows I was able to adjust the highlights so that more information could be seen in the smoke and brighter portions of the picture. The best way to approach these slider controls is to adjust them in the order they are presented in the dialogue. The amount sliders control the amount of the effect that is applied. The Tonal Width sliders control the depth of the tonal range that the effect is applied to. And lastly, the Radius slider acts as a distribution control based on the width area within the image.

YYePG Proudly Presents, Thx for Support

# Jargon Buster

*Everything you need to know about image-editing, but in an alphabetical order. This month we continue with G*

## G is for...

**GRADIENT TOOL**
**This tool is ideal for applying subtle blocks of tone to difficult highlights such as skies and other bright areas. In the toolbox, click on gradient tool then click on the linear gradient icon on the toolbar at the top of the screen. Depending on the value you applied to the gradient and how far beyond the edge of the selection you took the cursor when you click dragged it over the selection and released it, you will have a graded tonality from light to dark across the selected area and the highlight will be subdued.**

**GROW**
Found under the selection menu, this lets you expand on a marquee selection.

**GAUSSIAN BLUR**
Quickly blurs a selection by an adjustable amount. Gaussian refers to the bell-shaped curve that is generated when Photoshop applies a weighted average to the pixels. The Gaussian Blur filter adds low-frequency detail and can produce a hazy effect.

**GRAPHIC PEN FILTER**
Uses fine, linear ink strokes to capture the details in the original image and is especially striking with scanned images.

**GLOWING EDGES FILTER**
Identifies the edges of colour and adds a neon-like glow to them.

**GRAIN FILTER**
Applies an even pattern to shadows and midtones. A smoother, more saturated pattern is added to the image's lighter areas. Useful for eliminating banding in blends and visually unifying elements from various sources.

**GAMUT WARNING**
A gamut is the range of colours that a colour system can display or print. A colour that can be displayed in RGB may be out of gamut, and therefore unprintable, for your CMYK setting.

# A Lumi what?

**From:** C J Webb

I just bought a Lumicron LDC-825Z3 (tempted by Tesco's price). It appears to work well, but nowhere can I find any mention of it in any magazine, not even in the ads. It would appear to have never existed! Also I need to find out if the lenses for my Minolta Dynax, Canon and Pentax film SLRs will fit any of the digital SLRs.

***JAMIE REPLIES:*** ***There are about 400 different digital cameras on sale in the UK, and WDC reviews about 120 a year. With so many, we have to draw the line somewhere so we stick to named brands. There are companies in China producing cheap cameras that appear under many brand names, so chances are your Lumicron is one of those.***

***As for your SLR lenses, all of the brands you mention have digital models which should accept your current lenses, depending on their age, though the Minolta mount has recently been taken over by Sony.***

# Ask Adobe

**Got a question on Photoshop or Elements?**
Ask Adobe's imaging guru **Terry Steeley**

***Terry Steeley*** *represents Adobe as a speaker at seminars and trade shows worldwide, and is recognised as a world-class Photoshop specialist. His popular Photoshop4Photographers seminars cater for all abilities and cover all aspects of capturing and editing digital images. Terry is also the author of Iridius Actions, a CD collection of over 90 production and creative actions for Photoshop designed to streamline and automate common tasks. For more details visit* ***www.photoshop4photographers.co.uk***

## Hand tinting

**From:** Graham Cox

I am a recent convert to digital and would very much like to know if I am still able to do hand-tinting techniques with my images?

***TERRY REPLIES:*** *The art of hand colouring black and white images hasn't been lost with your move to digital, but has become more flexible. To begin, select* ***Image > Mode > Grayscale****, to convert your image to black and white and then* ***Image > Mode > RGB****, to move back to a colour workspace, yet remaining monochrome. Next, choose* ***Layer > New > Layer****, enter the name 'Edit Layer' and click OK. You've created a new transparent layer in your Layers palette which we'll be working initially. Ensuring that the Edit Layer is selected, choose 'Color' from the Blending Options menu. Select your first choice of colour for the tinting process (use either the Colors/Swatches palettes or alter the Foreground swatch). Select the Brush tool (B) and begin tinting by painting on areas of your image. I would suggest that you repeat the technique above for creating a new layer for each colour that you use. Enjoy.*

## Two colour simplicity

**From:** Felix Bell

I am considering purchasing Photoshop and would like to know if there is an easy way of using it to create Duotone images?

***TERRY REPLIES:*** *I suggest you download the trial software to try this technique first. Select* ***Image > Mode > Grayscale*** *from the menu bar to convert the image to black and white. Next,* ***Image > Mode > Duotone****. In the Duotone Options box, choose Duotone from the Type menu and you'll activate two inks. For now, leave the Black ink untouched. Click on the white swatch for Ink 2 and choose your preferred colour (it is often useful to move the floating boxes in such a way that you can see the changes on your image) and when satisfied, click OK. Click the Curve box to the left of Ink swatch 2. This is your Duotone Curve options box and will allow you to control the range of each ink tonally. For example, enter the value of 80% in the 100% box. This will prevent the Ink 2 colour printing in the shadow areas above 80% grey. Experiment until satisfied and click OK and OK again. Please remember that duotones are restricted to specific file formats and I would suggest saving in a Photoshop file format once this task is completed.*

**FOR DETAILS OF TERRY'S SEMINAR TOUR VISIT IRIDIUS.CO.UK**
YYePG Proudly Presents, Thx for Support
**For more details about Terry Steeley and his seminars, visit:**
**www.iridius.co.uk and www.totallycolourmanaged.com**

# WIN! One of 10 copies of PhotoPlus 10 Studio Pack

PhotoPlus 10 Studio Pack takes your photo-editing and managment capabilities to a whole new level. It's never been faster or easier to arrange your photos electronically, and a whole host of new and improved features including the One Click Red-Eye Tool; the Shadows, Highlights & Midtones tool; and the Enhanced Layer Management tool, makes editing and enhancing your snaps a breeze!

The PhotoPlus 10 Studio Pack also includes AlbumPlus 4 - the one-stop solution for organising, searching, categorising, rating, fixing and presenting your photos!

Serif For further information on the Serif range visit **www.serif.com**

TO enter the competition simply visit
**www.whatdigitalcamera.com/competitions**

thedigitalcamerashop.co.uk

Nikon

£SEE WEB
**Nikon D50 Kits or body only**
6.1 megapixel DX CCD image sensor
Ideal introduction to Digital SLR cameras

RICOH £SEE WEB
**Ricoh Caplio R4.** Huge 7.1 x optical zoom • 6 Megapixels • slim, compact body • long life battery (approx 330 shots)

cokin

£SEE WEB
**Cokin Filters.**
Entire range available.
See website for full details

Unbeatable deals on Digital SLRs

Canon EOS 30D
BODY ONLY FROM JUST £859.99
SAVE £240

Check our website for thousands of products at low, low prices!!

FROM ONLY £229.00
**Vosonic VP6230 80GB Portable Drive**
• 2.5" LCD Screen
• Support for most removable storage media
• Doubles as MP3 player, video player and voice recorder

**Lowepro Slingshot 100AW**
• Capacity: SLR with attached compact zoom lens; 1-2 extra lenses or flash unit
• Size (Interior): 7.5W x 5.1D x 9.8H in. / 19 x 13 x 25 cm
• Outer fabric: water-resistant micro fiber, ripstop nylon and 600 TXP™
ONLY £49.00

**Lowepro Slingshot 200AW**
• Capacity: SLR with attached compact zoom lens; 3-4 extra lenses or flash unit
• Size (Interior): 8.7W x 5.9D x 11.8H in. / 22 x 15 x 30 cm
• Outer fabric: water-resistant micro fiber, ripstop nylon and TXP™
ONLY £59.00

lowepro

Maestro VISA MasterCard DELTA
Buy with confidence using our secure online ordering.

UK COMPANY • UK PRODUCTS • UK WARRANTIES For friendly, reliable service, order online or by phone.

Tel: 01536 510101 9am–5pm Mon–Sat www.thedigitalcamerashop.co.uk

YYePG Proudly Presents, Thx for Support

# Evening Class

Photographer, author and Photoshop guru Martin Evening passes his verdict on a selection of your photos

*See page 19 for details on how to send us your digital images*

## Moon and Reflections

**By** Phil Smith
**Camera** Canon 300D

'On a trip out in the Dales, I rounded a corner and saw a daylight moon, being intersected by the vapour trail of a passing jet! I pulled up on the verge, and got out my tripod, Canon 300D, Sigma 70-200 with a 2x convertor, and remote release. The image has had a little post processing in Photoshop, using Auto Levels and a touch of unsharp mask.' For the Reflections image, I shot this reservoir, further down the same road, as in the cold evening air it presented itself magnificently. In Photoshop I adjusted the levels, cloned out a few minor distractions, and cropped the horizon away from the centre.'

***Martin says:*** *I thought it would be a good idea to include two of Phil's photographs, because they both have unique qualities and are worthy of inclusion in this month's pick of reader images. The picture of the aircraft vapour trail passing in front of the moon is an impressive technical achievement, particularly when you consider that Phil had the right equipment to hand to capture this shot. I notice that the reflections photograph was taken with an extreme wide-angle lens and this has helped to emphasise the perspective of the clouds and their reflection in the water.*

## Football on the Beach

**By** Chris Mole **Camera** Canon 20D

'Here's a shot of my son Edward playing football on Freshwater East beach in Pembrokeshire. It is taken into the setting (winter) sun to give an orange silhouette.'

***Martin says:*** *Here is a really good reason to ignore advice about not shooting into the sun. Chris has combined a number of skilful techniques to produce the photograph we see here. First, a long focal length lens has been used to compress the perspective. And the timing and the camera angle are perfect. Notice how there is an interesting contrast between his son caught in midair with the football, and the out-of-focus figures in the background.*

YYePG Proudly Presents

# Angel *of the* North

**By** Malcolm Smith **Camera** Minolta Dynax 7D, 28-80mm

'The Angel is quite difficult to photograph well due to the number of people that visit, the fact that it is wide and you can't stand back far without including distracting details of the hill it is on and the buildings at Low Fell. After trying to make a joiner, I shot this as a parting gesture in both fine JPG and RAW. However, I have only processed this JPG through Elements 3. The missing portion of the top left wing is the only disappointment. I am now saving for an extreme wideangle lens.'

***Martin says:*** *I appreciate the dilemma Malcolm faced here. I agree that a wideangle lens would have made a difference and enabled Malcolm to achieve his aim of enclosing the whole sculpture within the picture. But I don't think the solution he came up with here is in any way a poor compromise. Yes, with a wideangle lens it would have been possible to fit the whole of the sculpture into the camera frame, but a tight view such as the one shown here can be just as interesting and valid.*

# Botanical *Gardens*

**By** Peter Tuck **Camera** Panasonic FZ20

'I tried to capture the waterfall with as slow a shutter speed as possible to give that milky effect. I used shutter priority mode (1/40sec). I believe that a neutral density filter could have helped.'

***Martin says:*** *Peter is on the right track. But you really need a time exposure of a second or longer to capture a smooth, silky water effect. The cost of a neutral density should be proportionate to the quality of the camera used. So Peter could have bought a single four-stop filter, but a better (and cheaper) alternative would be to choose a location or time of day where the light levels are a lot lower than the scene photographed here.*

# Babysteps

**By** Jimmy Fransson **Camera** Nikon D70, 18-70mm

'This is a picture of my son's shoes. He's seven months old. I converted this photograph to black & white then I used Nik's bicolor filter to get the brown feeling into the picture.'

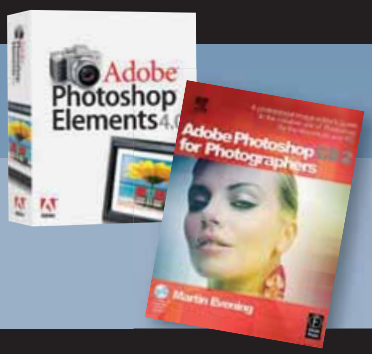
***Martin says:*** *I like this still-life photograph because of its simplicity as well as the choice of camera lens and angle. The shallow focus places most of the emphasis on a single shoe in the foreground and the overall composition is very nicely balanced. I also like the sepia effect Jimmy applied here which is quite subtle and not too dominant.*

**MARTIN EVENING:** Martin is a photographer, Photoshop alpha tester, international Adobe Roadshow speaker and author of the definitive, worldwide best-selling manual, Adobe Photoshop for Photographers. Visit his website at **www.martinevening.com**

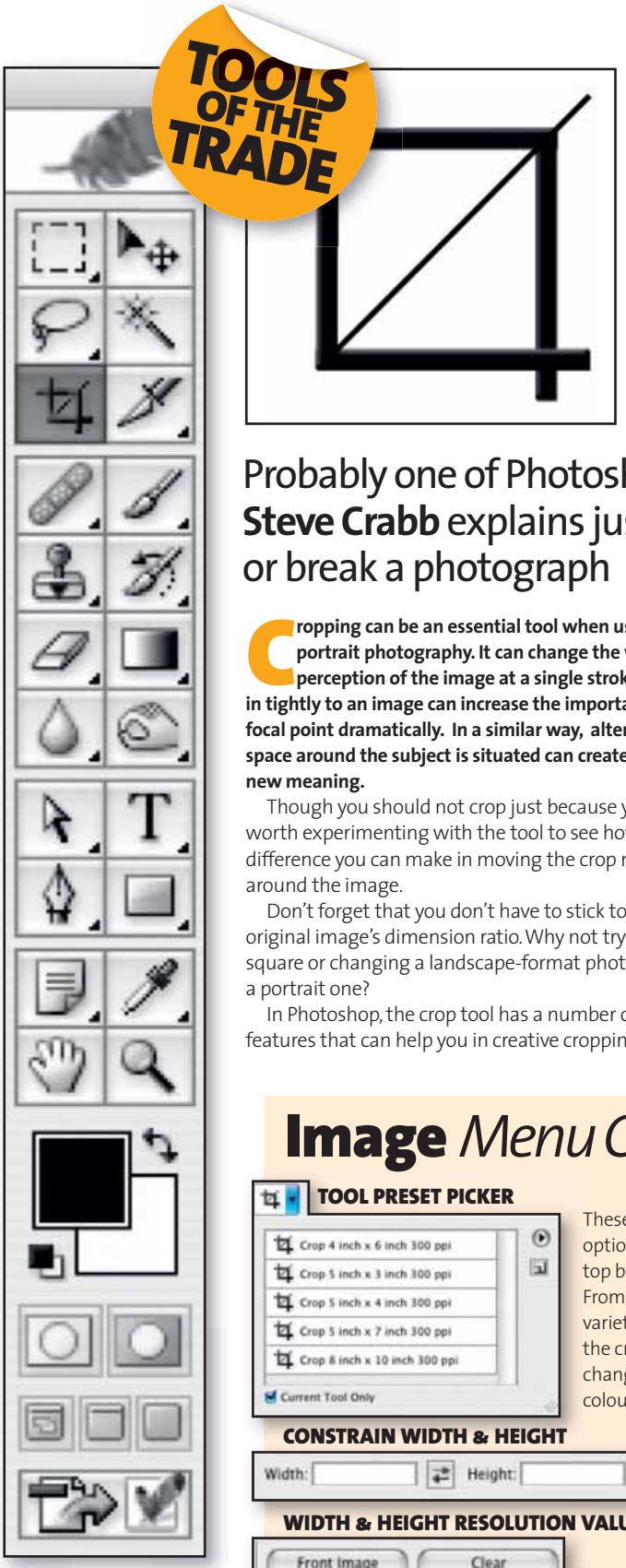
**EVERY PICTURE PUBLISHED WINS A CHOICE OF MARTIN EVENING'S BOOK ADOBE PHOTOSHOP FOR PHOTOGRAPHERS, OR ADOBE ELEMENTS 4.0**

Adobe Photoshop CS2 for Photographers, by Martin Evening, is the definitive, world-wide best-selling guide to Photoshop. Priced £27.99 with a tutorial packed CD-ROM. Visit **www.focalpress.com**.

Adobe Photoshop Elements 4.0 is the market-leading consumer photo editing and management software. It boasts groundbreaking features and a user-friendly interface. Visit **www.adobe.co.uk**




YYePG Proudly Presents, Thx for Support




# The Crop Tool

## Probably one of Photoshop's most underrated tools, **Steve Crabb** explains just how the Crop tool can easily make or break a photograph

**Cropping can be an essential tool when used with portrait photography. It can change the whole perception of the image at a single stroke. Cropping in tightly to an image can increase the importance of the focal point dramatically. In a similar way, altering where space around the subject is situated can create a whole new meaning.**

Though you should not crop just because you can, it is worth experimenting with the tool to see how much difference you can make in moving the crop marquee around the image.

Don't forget that you don't have to stick to your original image's dimension ratio. Why not try cropping it square or changing a landscape-format photograph into a portrait one?

In Photoshop, the crop tool has a number of great features that can help you in creative cropping. First, you can adjust the opacity of the surrounding crop area to 100% black – this may help you to visualise the final result. To do this, select the crop tool and draw a crop marquee across your image. The surrounding area should be a tint of about 75% black, so you can see the underlying areas.

Up in the menu bar you will find the options for the crop tool. In the opacity field enter the figure 100. This will enable the opacity to become completely black. If you click on the black square to the left, you can also set which colour you would prefer.

You can also move the cross hair found in the centre of the crop marquee and then use the handles in the corners to rotate the crop around the cross hair. You can keep the cross hair inside the marquee or outside it somewhere else on the image. The crop marquee will always rotate around the cross hair wherever it is.

## Image *Menu Options*

**TOOL PRESET PICKER**


Crop 4 inch x 6 inch 300 ppi
Crop 5 inch x 3 inch 300 ppi
Crop 5 inch x 4 inch 300 ppi
Crop 5 inch x 7 inch 300 ppi
Crop 8 inch x 10 inch 300 ppi
Current Tool Only

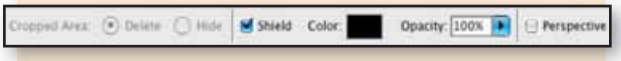
These tool menu options are found in the top bar of the screen. From here you can set a variety of options for the crop tool, such as change the opacity and colour of the waste area.

**CONSTRAIN WIDTH & HEIGHT**




**WIDTH & HEIGHT RESOLUTION VALUES**

**OPACITY OPTIONS**




**SET RESOLUTION FOR CROPPED IMAGE**

## Step *By Step*

### 1 Select *the tool*

From the tool palette, select the Crop tool. Click onto your image and hold down the mouse. While still holding the mouse down, drag across the image. A rectangular dotted line will appear – this is called a marquee.

YYePG Proudly Presents, Thx for Support

**Left:** The portrait of two sisters is adequate as it is, but notice there is quite a lot of empty space surrounding them. This may be fine in a standard portrait, but this image is trying to show a loving bond between the two girls

**Below:** By cropping in very tight to the two faces and removing nearly all of the background, as in the bottom image , the eye is drawn into the centre focal point. This creates an intimate composition that conveys more emotion

# TOP TIPS!

**DON'T JUST STICK TO BLACK**
Next to the opacity slider in the image menu options is a small colour picker. Click on this and it will launch the main colour picker window. From here you can select a new colour instead of black for the crop waste area.

**CROP AN UNUSUAL SHAPE**
Up in the image menu options you will see the check button 'Perspective'. Click on this and your crop marquee can be dragged to any unconstrained shape and size.

## 2 Adjust *the marquee*

On each of the four corners and on the edges of the marquee are small handles. These handles allow you to adjust the size and shape of the crop marquee. If you hover your mouse over one of them, the pointer will change to an adjustment arrow. Click and drag the handles to your desired area.

## 3 Adjust *the opacity*

From the options area at the top of the screen, you can change the opacity of the waste area surrounding your crop marquee. The default opacity is 75% black, but by using the slider, you can increase this to 100%. By doing this, you will block out the waste area completely, thus allowing you to view only the crop area.

## 4 Set *the crop*

When you have finished adjusting the crop area, either hit the Enter or Return key or click onto any other tool in the tool palette. This will then give you the option to either accept or decline the new crop.

YYePG Proudly Presents, Thx for Support

**LEARN:** Adding selective colour, Levels & Curves

YYePG Proudly Presents, Thx for Support

WDC EXPERT
Philip Andrews

A senior lecturer for over 17 years, in Photography & Digital Imaging. Author of many photography books, Philip is an Adobe alpha tester and a winner of the Leica documentary award for Australia (1999)

www.adv-elements.com

# Adding Colour to your Black & Whites

The Photoshop Project

In these four tutorials, **Philip Andrews** reintroduces you to the art of toning minus the chemical baths and smelly darkrooms

**Although almost all photos are now being captured in colour, the popularity of monochrome image-making doesn't seem to be on the wane. The continued support of monochrome in the face of full- impact digital colour is testament not only to the sheer sense of class that it brings to many a picture but also to the long-held tradition that the ongoing production of black and white photos maintains. Closely aligned to monochrome, and no less popular, is the darkroom-based art of toning or the tinting of the black and white photograph.**

Rather than sounding the death knell for print toning, the onset of digital opened the floodgates of colouring possibilities that were totally unimaginable in the days when most of my processing was done in the dark. Now any colour that you can see on screen can become the basis of a toned print. We can mix multiple colours in a single image and even assign different parts of the tonal scale to individual hues. It is even possible to tone one area of the photo with a single colour while leaving the rest of the image untouched or colorised with another hue. Impressed? I am.

In these tutorials we have used the same base photograph in order to demonstrate more clearly the effect of the different digital toning techniques. >>

## The *brief*

Tone your black & wite photographs using a single colour, duotones or selective toning

## Skill *level* 1 2 3 4 5

**TOOLS AND SKILLS**

- Shadow/Highlight
- Levels/Curves
- Desaturation command
- Hue/Saturation
- Layer mask

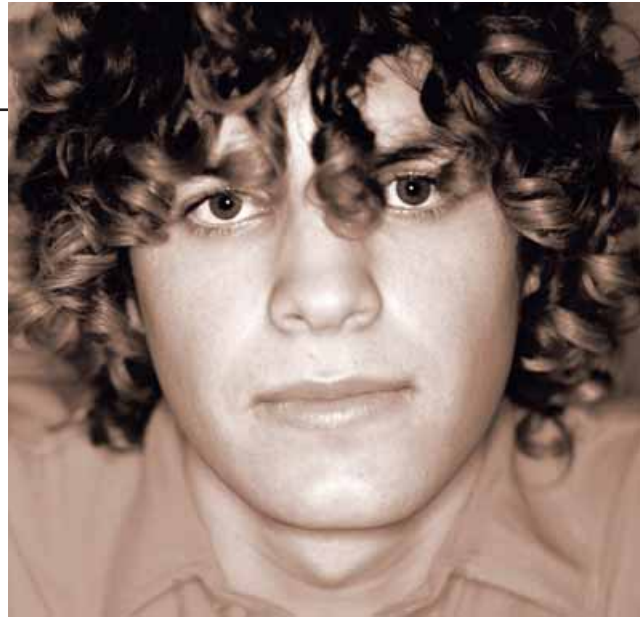
## Completion *time*

**20** minutes

## Software

Photoshop CS and Elements

YYePG Proudly Presents, Thx for Support



# Single *colour tones*

## Photoshop and Photoshop Elements

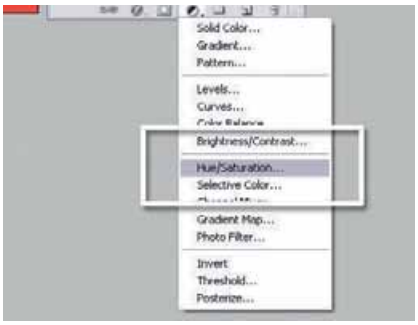
Photoshop, and Photoshop Elements, makes creating toned or tinted monochromes easy. The simplest approach uses the Colorize option in the Hue/Saturation dialogue (Photoshop: **Image > Adjust** or Photoshop Elements: **Enhance > Adjust Colour menus**). Toning using the Colorize option replaces the grey with the shades of the individual colour you select. Light greys are swapped with lightly coloured tones, mid-greys with slightly darker hues and heavier greys with richer versions of the toning colour. Toning using Hue/Saturation is as simple as selecting the Colorize option (bottom right of the dialogue) then adjusting the sliders until you see the style of tinting that you desire.

### Step 1 RGB *mode*

Convert the photo to RGB (**Image > Mode > RGB Colour**). If you are starting with a colour photo go to step two.

### Step 2 Layers *palette*

Apply changes via an adjustment layer. To do this, click on the Create Adjustment Layer icon in the Layers palette.




### Step 3 Adjust *sliders*

With the Hue/Saturation dialogue open, select Colorize. Adjust the Hue slider to select the toning colour, moving left to right. Use the Saturation slider to choose the colour's strength. Click OK.

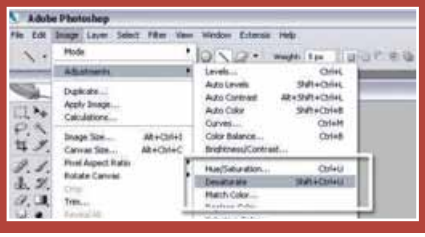
# Two tones *in the* one print

## Photoshop and Photoshop Elements

**This split-toning technique uses the Colour Variations feature in Elements (called Variations in Photoshop). Normally used to remove colour casts, Color Variations has the option to specify what part of the photo's tonal range the tint is applied to. By selecting Highlights, or Shadows, you can add a cast. To add a colour, choose the tonal area (Shadows, Midtones or Highlights) then select one of the thumbnails. This introduces a tint to specific tonal ranges of your b&w photo. By adding different colours to highlights and shadows you can simulate the results of the traditional split-toning process. Though you can make highlights, shadows and midtones different colours, the middle tones tend to be consumed by the other hues. So I am content to play with the tints of my shadows and highlights. To create split-toning effects losslessly (without altering the original pixels), Photoshop users can also alter the shadow and highlight tints with a Colour Balance Adjustment Layer.**

### Step 1 Remove *colour*

Ensure the b&w picture is in RGB mode (**Image > Mode > RGB**). If it is a colour image go to **Enhance > Adjust Color > Remove Color** (Photoshop: **Image > Adjustment > Desaturate**). Next select **Enhance > Adjust Color > Color Variations** (Photoshop: **Image > Adjustments > Variations**).

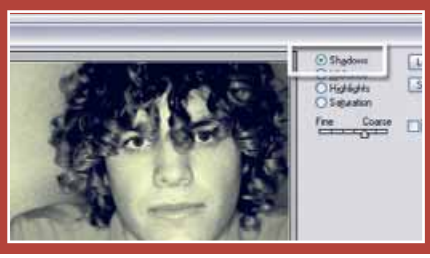



### Step 2 Adjust *colour*

With the Color Variations dialogue open, select the Highlights areas to adjust. Now click onto the thumbnail of the colour you wish to add. Check the change in the preview window and click the thumbnail again for a stronger colour.

### Step 3 Save *settings*

Without closing the dialogue, select the shadow areas and add colour by clicking an alternative thumbnail. Click OK. Click Save to store the dialogue values. When next opening an image to be split toned, load the saved values into the Variations dialogue.

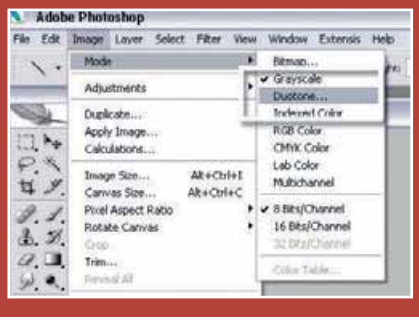


# **Ultimate** *toning*
## Photoshop

**Photoshop also has a sophisticated Duotone editor (Image > Mode > Duotone). This allows the user to select the two colours (or more) that will be present in the final image as well as edit which parts of the tonal curve each tint will be applied to. Adjusting the shape of the curve can restrict the first colour to just the shadow areas letting the second colour be used for printing the rest of the picture. Unlike the other techniques we have looked at, you need to start with a greyscale image. Tri and quadtones extend your creative possibilities even more.**

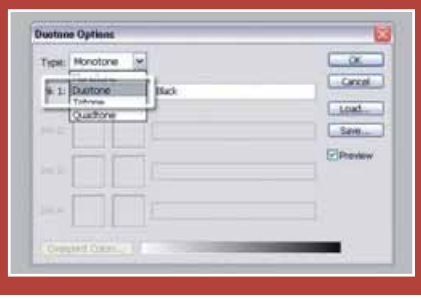
### Step 1 **Convert** *image*

Convert the colour image to greyscale (**Image > Mode > Greyscale**). Next switch to Duotone mode (**Image > Mode > Duotone**).



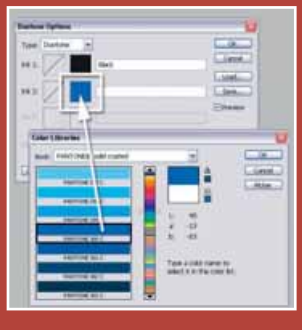

### Step 2 **Change** *entry*

Select the drop-down Type menu, top left of the dialogue. Change the entry from Monotone (one colour or ink) to Duotone (two colours), Tritone (three colours) or Quadtone (four).




### Step 3 **Second** *ink*

Double click in the second ink colour area ('Ink 2') to select a colour to add to the Black ink that is the default for Ink 1. Double click in the curve area to the left of the colour swatch to adjust the application curve or how the inks are mixed.

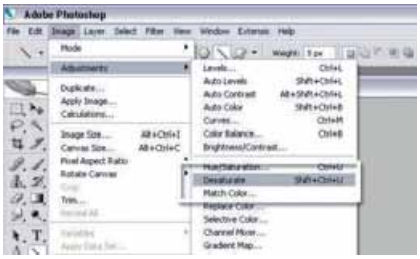


# **Selective** *toning*
## Photoshop and PS Elements

What if you only want to tint or tone a portion of your photograph? For this technique we start with a monochrome picture that is still in the RGB mode. This can be created by removing all colour with the **Image > Adjustments > Desaturate** command (Photoshop Elements: **Enhance > Adjust Color > Remove Color**). Next we select the area to be toned using your favourite selection tool. Here I used the Lasso to isolate the face, neck and hair. With the selection still active I then add a Hue/Saturation adjustment layer. The areas not selected are then masked from the adjustment layer effects leaving the rest of the image available for toning. Click the Colorize button in the Hue/Saturation dialogue and adjust the settings.

### Step 1 **Desaturate**

If starting with a colour photo, desaturate it. Photoshop: **Image > Adjustments > Desaturate**. Elements: **Enhance > Adjust Color > Remove Color**. If your image is greyscale, change to a colour file: **Image > Mode > RGB**.




### Step 2 **Selection** *tool*

Select the area to be toned. I used the Lasso. For a softer edge to the selection go to **Select > Feather** and input a pixel feather radius value to suit the image. For softer transitions use a higher value.

YYePG Proudly Presents, Thx for Support

### Step 3 **Hue**/*Saturation*

With the selection active, go to **Layer > New Adjustment Layer > Hue/Saturation**. A new layer with a thumbnail mask is created above the image. The mask contains a white area in the position of the selection and the rest of the mask is black. Altering the settings of the adjustment layer will only affect the area masked with white.

In association with Nikon

Introduction To

# Digital Imaging

## Home Study Course for Photographers

We will teach you how to master the fundamental skills of digital imaging easily

**Getting the best from your digital camera is not difficult but, like anything else, there is a certain amount of learning that needs to be done first.**

That's why we're launching the all-new Introduction to Digital Imaging for Photographers Home Study Course.

Written by award-winning writer and photographer, Damien Demolder, the course deals with the issues, tools and skills you need to understand and become familiar with, if you are to produce high-quality digital images.

The course is designed for anyone who has recently made the move to digital photography, or for those who have been shooting with a digital camera for some time, and want to learn more about controlling their images.

Among other skills, you will learn how to set-up your camera, the intricacies of processing your pictures, retouching, saving, archiving and how to turn them into top-quality prints.

### PREREQUISITES

The course is aimed at anyone not expert in digital photography, although some experience in photography (film or digital) is preferred. You will obviously need a digital camera and some form of imaging software.

YYePG Proudly Presents, Thx for Support

# WHAT DIGITAL CAMERA The Course

## What is a *Digital Image?*

Learn how images are made and saved, which compression and file types to use when, and why sensor size matters

**LEARN:**

- **Colour** *Control*
- **Contrast** *Control*
- **Basic** *Retouching*
- **Image** *Sharpening*
- **Black & White** *Techniques*
- **Perfect** *Printing Skills*

## Your course includes:

- Course workbook in CD-Rom form
- Personal critique of each module by your own tutor
- Access to the members-only Home Study Course online Forum
- **50% discount** on WDC subscription(UK only)
- **20% OFF** digital print orders at PhotoBox, which provides a high-quality photographic print service plus free storage on its website. **www.photobox.co.uk**
- **10% OFF** Jessops-branded products and all inkjet paper and cartridges.* Includes Jessops, Centon, IQ Video, Portaflash, Primefilm and Raynox. **www.jessops.com**
- A pack of 40 sheets of Fujifilm Multijet™ Premium glossy inkjet paper, ideal for framing and display. **www.fujifilm.co.uk**
- We also have an exclusive deal with Adobe offering all students the chance to buy Adobe Photoshop CS2 at the special rate of around £299.95. *That's a saving of almost £300.* **www.adobe.co.uk**

To enrol or to obtain further details, email **APDiploma@ipcmedia.com** or call **020 7261 6501**

**All this for only £199**

---

SPI

*Please tick as appropriate:*

☐ Yes, I would like to enrol now on the Digital Imaging Home Study Course

☐ Please send me more details on the course

The cost of the course is £199. Overseas fees available on request.
To enrol or simply to find out more information, send this coupon to:
**The School of Photographic Imaging Administrator, Room 0417, IPC Media, King's Reach Tower, Stamford Street, London, SE1 9LS**

## HOW TO PAY (UK rates)

**By Cheque/postal order:**
I enclose a cheque/postal order payable to IPC Media for £199.00 ☐

**By credit card:**
Please debit £199.00 from my

AMEX ☐ VISA ☐ MASTERCARD ☐

Card number ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Issue number ☐☐

Start date ☐☐☐☐ Expiry Date ☐☐☐☐

Signature .....

Mr/Mrs/Miss/Ms: _____ Name: _____

Address: _____

_____

_____

_____ Postcode: _____

Daytime telephone number: _____

If you would like to receive e-mails from What Digital Camera containing news, special offers and product and service information and take part in research, please write your e-mail address below.

Email: _____

What Digital Camera, published by IPC Media (IPC), will collect your personal information to process your entry. IPC would like to contact you by post or telephone to promote and ask your opinion on our products and services.
Tick here if you prefer not to be contacted for IPC ☐ IPC occasionally pass your details to carefully selected organisations so they can contact you by telephone or post with regards to promoting and researching their products and services. Tick here if you prefer not to be contacted. ☐

YYePG Proudly Presents, Thx for Support

warehouse express .com

Warehouse Express
PO Box no.659, Norwich NR3 2WN
Tel: 01603 258012 Fax 01603 258950
www.warehouseexpress.com

Winner 2005 Best Year
Best Online Retailer 2005
Best 'Independent Retailer of the year' for 3 concecutive years
2002 • 2003 • 2004
a big thank you for all your votes

PRICES CHANGING DAILY see website for latest prices

# BUY NOW...

Just pay 10% deposit now and

In 9 months when the balance is due, you have the choice of either paying the the balance in full completely interest free or you may commence paying by monthly installments over 36 months at which interest would thus be applicable

2 FINANCE OPTIONS

GeoTrust

WE DO NOT SELL GREY IMPORTS!

## NEW Olympus E-500

OLYMPUS

E-SYSTEM 8 mega pixels SLR

Leaves other DSLR's in the dust...

FREE 1GB CF CARD worth £47.99

Supersonic Wave Filter for dust protection

8.0 million pixels with Full Frame Transfer CCD
8.4cm/2.5" HyperCrystal LCD
4fps area AE sensor & high light basis, shadow light basis spot metering

E500 - Body only £529 (£23/mth)

E500Plus... 14-45mm £549 (£23/mth) 14-45mm + 40-150mm Plus FREE 1GB CF Card worth £47.99 £619 (£26/mth)

## NEW Olympus E-330

OLYMPUS

E-SYSTEM 7.5 mega pixels SLR

The worlds first dual mode live preview DSLR

Multi-angle 6.4cm/2.5" Hyper Crystal LCD

Supersonic Wave Filter for dust protection

The Olympus E-330 is the world's first* digital SLR camera to feature continuous live views directly on the LCD. Enabling the framing of compositions without the need to look through the ocular, it allows digital SLR photographers to see what's going on around them while they shoot, significantly enhancing flexibility

E-330 - Body only £799 (£34/mth)

E-330 Plus... 14-45mm £879 (£37/mth)

## Olympus E-1 System

OLYMPUS

5.5 mega pixels SLR

See our website for the complete range of E1 System lenses and accessories

5.5 Megapixel sensor
4/3 Sensor sets new digital standards
No loss of wide angle capability
Die -cast magnesium alloy body

E1 - Body only £649 (£28/mth)

E1 Plus... 14-45mm + FL36 Flash £819 (£35/mth) 14-54mm + FL38 Flash £999 (£42/mth)

### OLYMPUS Lenses

| | |
|---|---|
| Olympus ZUIKO 7-14mm F4 | £1199.00 |
| Olympus ZUIKO 11-22mm F2.8-3.5 | £559.00 |
| Olympus ZUIKO 14-45mm f3.5-5.6 | £164.00 |
| Olympus ZUIKO 14-54mm F2.8-3.5 | £449.00 |
| Olympus ZUIKO 40-150mm f3.5-4.5 | £189.00 |
| Olympus ZUIKO 50-200mm F2.8-3.5 | £699.00 |
| Olympus ZUIKO 150mm F2.0 | £1949.00 |
| Olympus ZUIKO 50mm F2.0 macro | £354.00 |
| Olympus ZUIKO 300mm F2.8 | £4795.00 |
| Olympus EC-14 tele convertor | £324.00 |
| Olympus EX-25 extension tube | £99.00 |

## Pentax *ist DL

PENTAX

6.1 mega pixels SLR

High-definition 6.1 effective megapixels
Extra-large 2.5"-inch colour LCD monitor
User-friendly automatic operations
High-precision 16-segment multi-pattern metering
High-speed 2.8-frame consecutive shooting
Noise-reduction system to minimize annoying digital noise during extended exposures

*ist DL - Body only £459 (£20/mth)

*ist DL Plus... smc P-DA 18-55mm f 3.5 - 5.6 £539 (£23/mth)

### PENTAX Lenses

| | |
|---|---|
| SMC 14mm f2.8 DA ED IF | £599.00 |
| SMC 40mm f2.8 DA | £219.00 |
| SMC 12-24mm f4 ED DA | £629.00 |
| SMC 14-45mm f4 DA ED AL | £209.00 |
| SMC 16-45mm f4 ED AL | £179.00 |
| SMC 18-55mm f3.5 - 5.6 DA AL | £169.00 |
| SMC 50-200mm f4 - 5.6 DA ED | £349.00 |
| SMC 100mm f2.8 D FA Macro | £399.00 |

PENTAX SMC 14mm f2.8 DA ED IF £599

PENTAX SMC 18-55mm f3.5 - 5.6 DA AL £179

NEW PENTAX DA 12-24mm f4 ED AL (IF) See website

## Sigma SD10

SIGMA

Award winning Foveon X3 image sensor
10.2Million Colour Photo Detectors
High resolution with (2652x1512 pixels) x 3
AAW Image Format
ISO100-1600 setting
Image Sensor Dust Protector
Mirror lock-up Mechanism Prevents Camera Shake
Exposure Compensation and Auto Bracketing
Non-stop shooting up to 30 frames
Accepts Sigma SA mount lenses

FOVEON

3.43 x3 mega pixels SLR

SD10 Plus... 18-50mm £549 (£23/mth)

## 5 NEW LENSES

See web for details

30-200mm f2.8 £3899
35-100mm f2 £1659
18-180mm f3.5-4.5 £339
8mm f3.5 £529
35mm f3.5 £149

## Konica Minolta Dynax 7D

KONICA MINOLTA

6.1 mega pixels SLR

6.1 megapixel CCD
Integral CCD-shift, Anti-Shake technology
2.5-inch color LCD monitor
Compatible with virtually any Dynax AF lens

ANTI-SHAKE

Dynax 7D - Body only £599 (£25/mth)

Dynax 7D Plus... AF-DT 18-70mm f3.5-5.6 D £669 (£28/mth) AF-DT 17-35mm f2.8-4 D £729 (£31/mth)

### Minolta Lenses

| | |
|---|---|
| AF-DT 11-18mm f4.5-5.6 D | £399.00 |
| AF 17-35mm f2.8-4 D | £149.00 |
| AF-DT 18-70mm f3.5-5.6 D | £95.00 |
| AF-DT 18-200mm f3.5-6.3 D | £349.00 |
| AF 20-35mm f3.5-4.5 | £419.00 |
| AF 24-85mm f3.5-4.5 | £249.00 |
| AF 24-105mm f3.5-4.5 | £319.00 |
| AF 28-70mm f2.8 D | £299.00 |
| AF 28-80mm D f3.5-5.6 | £89.00 |
| AF 70-200mm f2.8 APO G SSM | £1699.00 |
| AF 70-210mm f4.5-5.6 | £99.00 |
| AF 75-300mm D f4.5-5.6 | £139.00 |

## NEW Mamiya ZD SLR

Mamiya

22 mega pixels SLR

The first integrated medium format digital SLR camera
22 mega pixel CCD imaging sensor (total 4008 x 5344)
36mm x 48mm Dalsa CCD image sensor is 2 times the size of full 35mm D-SLR
Mamiya 645AF lens mount
Frame capture rate of 1.5 fps

Mamiya DIGITAL

ZD Back See website for details

ZD SLR - Body only £See web

## Fujifilm FinePix S3 Pro

FUJIFILM

6.1 mega pixels SLR

Based on the Nikon F80
Super CCD SR II sensor,
6 million pixel
locations (2 photodiodes per pixel location)
Adjustable dynamic range
Image sizes up to 4256 x 2848 pixels
Film simulation modes

S3 Pro - Body only £999 (£42/mth)

S3 Pro Plus... Nikon AF 18-35mm f3.5-4.5 D £1334 (£56/mth) Nikon AF 24-85mm f3.5-4.5 G £1148 (£48/mth) Sigma 18-50mm f2.8 EX DC £1298 (£55/mth)

## Casio

| | |
|---|---|
| EXILIM EX-Z60 NEW | £169.00 |
| EXILIM EX-Z500 | £205.00 |
| EXILIM EX-Z750 | £235.00 |
| EXILIM EX-Z850 NEW | £289.00 |
| EXILIM EX-P505 | £249.00 |
| EXILIM EX-S600 | £229.00 |

Casio EXILIM EX-S600 6 mega pixels £229

## Epson

| | |
|---|---|
| Epson R-D1 | £1899.00 |

## Fujifilm

| | |
|---|---|
| FinePix A350 Zoom | £119.00 |
| FinePix A400 NEW | £99.00 |
| FinePix A500 NEW | £129.00 |
| FinePix F10 Zoom | £189.00 |
| FinePix F11 Zoom | £239.00 |
| FinePix F470 NEW | £See web |
| FinePix E500 Bundle Offer | £159.00 |
| FinePix Z1 Zoom | £189.00 |
| FinePix S5600 Zoom | £223.00 |
| FinePix S7000 Zoom | £299.00 |
| FinePix S9500 Zoom | £379.00 |
| FinePix V10 NEW | £229.00 |

Fujifilm FinePix Z1 zoom 5 mega pixels £189

## HP

| | |
|---|---|
| HP Photosmart M22 | £85.00 |
| HP Photosmart R717 | £165.00 |
| HP Photosmart R817 | £209.00 |

## Kodak

| | |
|---|---|
| Easyshare P880 | £349.00 |
| Easyshare P850 | £295.00 |
| Easyshare C300 | £69.00 |
| Easyshare C330 | £89.00 |
| Easyshare C360 | £125.00 |
| Easyshare C663 | £159.00 |
| Easyshare V550 | £249.00 |
| Easyshare V570 NEW | £239.00 |
| Easyshare Z700 | £129.00 |
| Easyshare Z740 | £169.00 |
| Easyshare Z7590 | £225.00 |
| Easyshare Dock 6000 | £39.00 |
| Easyshare Dock 3 | £39.00 |
| Easyshare Printer Dock 3 | £109.00 |

Olympus FE-115 NEW 5 mega pixels £99

## Leica

| | |
|---|---|
| D-LUX LAST FEW | £399.00 |
| D-LUX 2 | £499.00 |
| Digilux 2 | £1229.00 |

## Rollei

| | |
|---|---|
| Prego dp 5324 | £149.99 |
| Prego dp 5200 | £179.99 |
| Prego dp 5500 REDUCED | £99.99 |
| Prego dp 6500 | £179.99 |
| Prego dp 6200 | £199.99 |
| Prego dp 8300 | £249.99 |
| Prego da 10 NEW | £169.99 |
| Prego da 8324 NEW from | £169.99 |

Pentax Optio WPi 6 mega pixels £199

Konica-Minolta LAST FEW see website for details

STEALTH CAM from £59.99

CAM MOTION CAMERA as used by the BBC see website

## Olympus

| | |
|---|---|
| C-180 | £95.00 |
| FE-115 NEW | £99.00 |
| FE-130 NEW | £119.00 |
| FE-140 NEW | £139.00 |
| FE-150 NEW | £129.00 |
| SP-320 | £189.00 |
| SP-350 | £219.00 |
| SP-500 | £229.00 |
| µ[mju:] Digital 700 NEW | £199.00 |
| µ[mju:] Digital 720 SW NEW | £259.00 |
| µ[mju:] Digital 800 | £249.00 |
| µ[mju:] Digital 810 NEW | £279.00 |

## Pentax

| | |
|---|---|
| Optio WPi- Waterproof | £199.00 |
| Optio A10 NEW | £See web |
| Optio S6 | £219.00 |
| Optio S60 | £199.00 |

## Ricoh

| | |
|---|---|
| Caplio R3 | £229.00 |
| Caplio GX8 | £248.00 |
| Caplio GR Digital | £399.00 |
| Caplio R30 | £199.00 |

## Samsung

| | |
|---|---|
| L50 | £139.00 |
| L55W | £199.00 |
| PRO 815 | £449.00 |
| DigiMax A402 | £79.00 |
| DigiMax A40 | £109.00 |
| DigiMax i5 | £169.00 |
| DigiMax i6 NEW | £See web |
| DigiMax V700 | £189.00 |
| DigiMax S600 NEW | £See web |
| DigiMax S800 | £See web |

## Sony

| | |
|---|---|
| Cybershot DSC-P200 | £229.00 |
| Cybershot DSC-T5 | £219.00 |
| Cybershot DSC-T7 | £269.00 |
| Cybershot DSC-T9 NEW | £289.00 |
| Cybershot DSC-W15 | £199.00 |
| Cybershot DSC-W17 | £243.00 |
| Cybershot DSC-W30 NEW | £149.00 |
| Cybershot DSC-W50 NEW | £169.00 |
| Cybershot DSC-W70 NEW | £219.00 |
| Cybershot DSC-W100 NEW | £239.00 |
| Cybershot DSC-M2 | £334.00 |
| Cybershot DSC-N1 | £316.00 |
| Cybershot DSC-R1 NEW | £See web |
| Cybershot DSC-S600 NEW | £139.00 |
| Cybershot DSC-H2 NEW | £299.00 |
| Cybershot DSC-H5 NEW | £349.00 |

## Fujifilm FinePix S5600 Zoom

5 mega pixels
10x Optical Zoom
38-380 mm Zoom

FUJIFILM £223 or £10/mth

## Fujifilm FinePix S9500 Zoom

9 mega pixels
10.7x Optical Zoom
28-300mm Zoom

FUJIFILM £379 or £16/mth

## Leica D-LUX 2

8 mega pixels
4x Zoom
18-112mm
3 Image ratios

Spare Battery £48
Leica Crumpler Case £28
Digiscoping Adapter £129

£499 or £21/mth

## Olympus SP 320

NEW 7 mega pixels
3x Optical Zoom
38-114mm Zoom

OLYMPUS £189 or £8/mth

## Olympus µ[mju] Digital 700

NEW 7 mega pixels
3x Optical Zoom
37-111mm Zoom

OLYMPUS £199 or £8/mth

## Kodak Easyshare P880

8 mega pixels
5.8x Optical Zoom
24-140mm Zoom

Kodak £349 or £16/mth

## Olympus µ[mju] Digital 720SW

NEW 7 mega pixels
3x Optical Zoom
38-114mm Zoom

OLYMPUS £259 or £11/mth

## Olympus µ[mju] Digital 810

NEW 8 mega pixels
3x Optical Zoom
35-105mm Zoom

OLYMPUS £279 or £12/mth

## Rollei Prego dp 8300

8 mega pixels
3x Optical Zoom
36-108mm Zoom

Rollei £249.99 or £11/mth

## Pentax Optio S6

6 mega pixels
3x Optical Zoom
37-112mm Zoom

PENTAX £219 or £9/mth

## Sony Cybershot DSC-W50

NEW 6 mega pixels
3x Optical Zoom
38-114mm Zoom

SONY £169 or £8/mth

## Sony Cybershot DSC-T9

NEW 6 mega pixels
3x Optical Zoom
38-114mm Zoom

SONY £289 or £13/mth

## Samsung Pro815

8 mega pixels
15x Optical Zoom
28-420mm Zoom

SAMSUNG £449 or £19/mth

## Ricoh Caplio R30

NEW 5 mega pixels
5.7x Optical Zoom
28-160mm Zoom

RICOH £199 or £8/mth

## Ricoh Caplio GR Digital

NEW 8 mega pixels
x Optical Zoom
mm Zoom

RICOH £399 or £17/mth

YYePG Proudly Presents, Thx for Support

# ...PAY LATER

the balance in 9 months - Interest Free

**NO DEPOSIT FINANCE**
Also available: you pay nothing now and spread the repayments over 24 or 36 months (interest bearing)
Minimum balance for finance £150

Buy on-line - Secure 24hr Shopping
www.warehouseexpress.com

£35-£105 Accessory
**CASH BACK**
offered with Canon 350D, 30D & 5D Digital SLR's this month
see website for details

Canon

## Order Lines
01603 258012
Monday - Friday 9am5pm

• E. & O.E. Prices subject to change. Goods subject to availability. •

## NEW Canon EOS 30D

IN STOCK NOW

**Designed to inspire... Built to last.**

Realise your photographic vision with the EOS 30D. Speed and precision in a tough magnesium alloy body, with access to over 60 EF lenses and the range of EOS accessories for unlimited creativity.

See the system chart for 30D accessories on our website

plus FREE 512MB CF from Canon

8 mega pixels SLR

EOS 30D - Body only £999 £42/mth

EOS 30D Plus... Canon EF-S 18-55mm f3.5-5.6 DC £1039 £44/mth

Canon EF-S 17-85mm f4-5.6 IS USM £1329 £58/mth

## Canon EOS 350D

Switch to the future with the EOS 350D Digital

and take your creativity to a new dimension. Compact, lightweight and intuitive, delivering results to captivate the most discerning audience.

8 mega pixels SLR

Worlds lightest digital SLR body
High-performance 8.0-megapixel CMOS sensor
Sophisticated DIGIC II imaging engine

EOS 350D - Body only £469 £22/mth

EOS 350D Plus... EF-S 18-55mm £499 £21/mth

EF-S 18-55mm + EF 55-200mm + BG-E3 Grip £679 £29/mth

EF-S 17-85mm + BG-E3 Grip £889 £38/mth

## Canon EOS 20D

Balance, Poise, Precision

The EOS 20D is the semi-professional digital SLR to deliver all the speed, precision and flexibility synonymous with high-end film SLR cameras - plus a whole lot more.

8.2 mega pixels SLR

8.2 Megapixel CMOS sensor
5 fps with up to 23 frame burst
DIGIC II Processor
E-TTL II distance-linked flash

EOS 20D - Body only £749 £32/mth

EOS 20D Plus... Canon EF-S 17-85mm f4-5.6 IS USM £1149 £48/mth

## EOS 5D

SLR 12.8 mega pixels

£200 CASHBACK

12.8 MP full frame CMOS sensor
3 fps 60 JPEG image burst
9-point AF with 8 Assist AF points
2.5" LCD
Picture Style image processing
DIGIC II

EOS 5D - Body only £1599 £67/mth (with Cashback)

EOS 5D Plus... Canon EF 24-105 f/4L IS USM £2239 £94/mth (with Cashback)

5D - Accessories
BG-E4 grip £169.99

## EOS 1D MkIIN

SLR 8.2 mega pixels

See the Andy Rouse EOS 5D Review

SEE WEBSITE FOR LATEST PRICES

8.2 MP CMOS sensor
8.5 fps/48 JPEG image burst
45-point AF
Bright 2.5" 230K pixel LCD
DIGIC II
Wide ISO range from L50 to H3200

WFT-E1 Wireless Transmitter £699

NEW 430 EX Speedlite £189

EOS 1D MkIIN - Body only £2379 £100/mth

## EOS 1Ds MkII

SLR 16.7 mega pixels

Andy Rouse Review

16.7 MP full frame 36 x 24mm CMOS sensor
0.3 second start up and 4fps performance
ISO 100-1600, expandable to L50 and H3200
2.8 LCD screen with 230,000 pixels, 1.5-10x playback zoom

EOS 1Ds MkII - Body only £4599 £192/mth

EOS 1Ds Mk II Plus... EF 16-35mm f2.8 L USM £5624 £235/mth

EF 17-40mm f4 L USM £5169 £220/mth

EF 24-70mm f2.8 L USM £5524 £232/mth

## Canon Lenses

| | | | |
|---|---|---|---|
| EF20mm f2.8 USM | £329.00 | EF-S17-85mm f4-5.6 USM(for EOS 20D, 30D & 350D only) | £409.00 |
| EF24mm f2.8 | £309.00 | EF20-35mm f3.5-4.5 USM | £269.00 |
| EF28mm f1.8 USM | £319.00 | EF24-85mm f3.5-4.5 USM | £239.00 |
| EF28mm f2.8 | £134.00 | EF24-70 F2.8L USM | £881.00 |
| EF50mm f1.4 USM | £239.00 | EF24-105 f4 L IS USM | £681.00 |
| EF60mm f2.8 Macro | £277.00 | EF28-105mm f4-5.6 USM | £147.00 |
| EF85mm f1.8 USM | £264.00 | EF28-135mm f3.5-5.6 IS USM | £328.00 |
| EF85mm f1.2L II USM NEW | £See web | EF70-200mm f2.8 L IS USM | £1299.00 |
| EF300mm f4.0 L IS USM | £899.00 | EF70-200mm f4.0 L USM | £478.00 |
| EF-S10-22mm f3.5-4.5 USM (for EOS 20D, 30D & 350D only) | £514.00 | EF70-300mm f4.0-5.6 IS USM NEW | £369.00 |
| EF16-35mm f2.8 L USM | £949.00 | EF75-300mm f4.0-5.6 USM | £159.00 |
| EF17-40mm f4.0 L USM | £533.00 | EF100-400mm f4.5-5.6 L IS USM | £1089.00 |
| EF-S17-55mm f2.8 IS USM (for EOS 20D, 30D & 350D only) | £See web | | |

## Canon

CANON LAUNCH 9 NEW MODELS - See website for more

### PowerShot S3 IS

6 mega pixels NEW

12x Optical Zoom
36-432mm Zoom
£379 or £15/mth

### PowerShot A540

6 mega pixels NEW

4x Optical Zoom
35-140mm Zoom
£215 or £9/mth

### PowerShot A530

5 mega pixels NEW

4x Optical Zoom
35-140mm Zoom
£169 or £8/mth

### PowerShot A430

4 mega pixels NEW

4x Optical Zoom
39-156mm Zoom
£129 or £8/mth

### IXUS 800 IS

6 mega pixels NEW

4x Optical Zoom
35-140mm Zoom
£349 or £13/mth

### IXUS 65

6 mega pixels NEW

3x Optical Zoom
35-105mm Zoom
£299 or £10/mth

### IXUS 60

6 mega pixels NEW

3x Optical Zoom
35-105mm Zoom
£259 or £10/mth

### IXUS i zoom

5 mega pixels

2.4x Optical Zoom
38-90mm Zoom
£169 or £8/mth

### IXUS Wireless

5 mega pixels

3x Optical Zoom
35-105mm Zoom
£284 or £13/mth

### IXUS 750

7 mega pixels

3x Optical Zoom
37-111mm Zoom
£289 or £13/mth

### IXUS 55

5 mega pixels

3x Optical Zoom
35-105mm Zoom
£189 or £8/mth

### PowerShot S80

8 mega pixels

3.8x Optical Zoom
28-108mm Zoom
£312 or £13/mth

| | | | | | |
|---|---|---|---|---|---|
| DIGITAL IXUS WIRELESS NEW | £284.00 | IXUS 65 NEW | £299.00 | PowerShot A430 NEW | £129.00 |
| IXUS i Zoom | £169.00 | IXUS 750 | £289.00 | PowerShot A520 NEW | £169.00 |
| IXUS 55 | £189.00 | IXUS 800 IS NEW | £349.00 | PowerShot A540 NEW | £215.00 |
| IXUS 60 NEW | £259.00 | PowerShot A610 | £95.00 | PowerShot A610 | £165.00 |
| | | | | PowerShot S2 IS | £299.00 |
| | | | | PowerShot S3 IS NEW | £379.00 |
| | | | | PowerShot S80 | £312.00 |

CHECK WEBSITE FOR LATEST PRICES

## Nikon

## NEW Nikon D200

Nikon launches its powerful, feature-packed D200 digital SLR camera, delivering a high-precision, high-performance package and creating a new class of camera between entry-level and professional digital SLRs.

Kirk L-Bracket only £99.95

10.2 million pixels SLR

See website for latest prices & bundle offers

Plus 1/2 price lens deal...see website

D200 - Accessories
MC-36 Remote Control £119.99
BM-4 LCD Screen Cover £6.99
CF-D200 Case £49.99

D200 - Body only £1169 £49/mth

D200 Plus... AF-S 18-70mm £1349 £57/mth

AF-S 17-55mm £2069 £87/mth

## Nikon D50

Vivid colour and sharp details straight from the camera

Specifically designed for consumers looking to upgrade from a digital compact to the next level of digital photography, the D50 is affordable and simple to use; perfect for the SLR beginner.

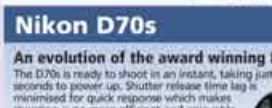
6.1 mega pixels SLR

6.1 effective megapixel Nikon DX Format CCD
3D Colour Matrix Metering II ensures accurate exposure control and white balance
Near-instant 0.3 second power-up, and quick shutter response

Battery Grips Hahnel HN-D50 £99.99

NEW LOWER PRICE

Available in...



FROM £345

D50 - Accessories CF-D50 Semi Soft Case £34.99

Photographer July 2005 88%
• Great AF and metering
• Good flash
• Faithful RGB
• Really easy to use
• Big and clear LCD

D50 - Body only £345 £16/mth

D50 Plus... AF-S DX 18-55mm f3.5-5.6 G ED £425 £18/mth

AF-S 24-85mm f3.5-5.6G £495 £21/mth

AF-S DX 18-70mm f3.5-4.5G IF ED £529 £23/mth

AF-S DX 18-55mm & AF-S DX55-200mm £559 £24/mth

## Nikon D70s

An evolution of the award winning D70

The D70s is ready to shoot in an instant, taking just 0.2 seconds to power up. Shutter release time lag is minimised for quick response when makes shooting even more efficient and enjoyable.

Remote Control Shutter Release Cord MC-DC1 £29.99

6.1 mega pixels SLR

6.1 effective megapixel Nikon DX Format CCD
3 frames per second for a continuous burst of up to 144 pictures
0.2 sec. power-up and short shutter release time lag
Large 2.0" LCD monitor with intuitive menus and help display

Battery Grips Hahnel HN-D70 £99.99

D70s - Body only £579 £25/mth

D70s Plus... Nikkor AF-S DX 18-70mm f3.5-4.5 G SG IF ED £719 £30/mth

Nikkor AF-S 24-85mm f3.5-4.5 G £728 £31/mth

D70s - Accessories
CF-D70s Semi Soft Case £34.99
EN-EL3 Lith-ion Battery £49.99

## Nikon D100

Scoop Purchase

D100 - Body only only £699

D70s Plus... MB-D100 Grip only £779

MB-D100 Grip + 24-85 AFS f3.5-5.6 G only £919

## Nikon D2Hs

4.1 mega pixels SLR

LBCAST image sensor with 4.1 effective megapixels
Advanced new image processing engine
8 fps for up to 50 consecutive shots
3D Colour Matrix Metering II

D2Hs - Body only £2049 £86/mth

## Nikon D2X

Kirk L-Bracket for D2H & D2X fitted with wireless £149.95

12.1 mega pixels SLR

12.4 effective megapixels
Continuous shooting at 5 fps, 8fps shooting at 8.8 megapixels
Faster read/write speed for the memory card
Advanced 3D Colour Matrix Metering II

D2X - Body only £2799 £117/mth

## Nikkor Lenses

| | | | | | |
|---|---|---|---|---|---|
| DX Fisheye 10.5mm f2.8 ED | £467.00 | 135mm f2 D DC | £895.00 | | |
| 14mm f2.8 D | £1089.00 | 180mm f2.8 D IF-ED | £559.00 | | |
| 16mm f2.8 Fisheye | £545.00 | AF-S 300mm f4 IF ED | £865.00 | | |
| 18mm f2.8 D | £1145.00 | AF-S 12-24mm | £719.00 | | |
| 20mm f2.8 D | £485.00 | AF-S 17-35mm f2.8 | £1145.00 | | |
| 24mm f2.8 D | £32500 | AF-S DX 17-55mm f2.8 | £949.00 | | |
| 28mm f1.4 D | £1429.00 | AF-S DX18-55mm f3.5-5.6G IF ED | £169.00 | | |
| 28mm f2.8 D | £189.00 | 18-35mm f3.5-4.5 D | £335.00 | | |
| 35mm f1.4D | £212.00 | AF-S DX 18-70mm f3.5-4.5 G | £189.00 | | |
| 50mm f1.8 D | £97.00 | AF-DX VR 18-200mm f3.5-5.6 G | £489.00 | | |
| 85mm f1.4 D IF | £775.00 | 24-50mm f3.3-4.5 D | £325.00 | | |
| 85mm f1.8 D | £321.00 | 24-85mm f2.8-4 DIF | £435.00 | | |
| 105mm f2 D DC | £719.00 | AF-S 24-85mm f3.5-4.5 IF-ED | £287.00 | | |
| 105mm Macro NEW | £549.00 | AF-S VR 24-120mm f3.5-5.6 IF-ED | £419.00 | | |

NEW 300mm f2.8 VR
200mm f2 VR
See website for details

| | |
|---|---|
| AF-S 28-70mm f2.8 D | £1125.00 |
| AF-DC 28-200mm f3.5 18 AFDH | £179.00 |
| AF-S DX 55-200mm Black or Silver | £149.00 |
| 70-200mm VR AFS-G2.8 | £1185.00 |
| 80-200mm f2.8D ED+Cc-63A | £799.00 |
| AF VR 80-400mm f4.5-5.6 ED G | £1005.00 |
| AF-S VR 200-400mm f4 G IF ED | £4299.00 |

See the full range on our website

## Nikon

### COOLPIX L2 NEW

6 mega pixels

3x Zoom-Nikkor 38-116mm Zoom
£189 or £8/mth

### COOLPIX L3 NEW

5 mega pixels

3x Zoom-Nikkor 38-116mm Zoom
£159 or £8/mth

### COOLPIX L4 NEW

4 mega pixels

3x Zoom-Nikkor 38-114mm Zoom
£119 or £8/mth

### COOLPIX S5 NEW

6 mega pixels

3x Optical Zoom 35-105mm Zoom
£279 or £12/mth

### COOLPIX S6 NEW

6 mega pixels

3x Zoom-Nikkor 35-105mm Zoom
£319 or £14/mth

### COOLPIX P3 NEW

8 mega pixels

3.5x Zoom-Nikkor 36-128mm Zoom
£319 or £14/mth

### COOLPIX P4 NEW

8 mega pixels

3.5x Zoom-Nikkor 36-128mm Zoom
£309 or £14/mth

### COOLPIX 8800

8 mega pixels

10x Zoom-Nikkor ED 35-350mm Zoom
£499 or £21/mth

### COOLPIX 4500

4 mega pixels SPECIAL OFFER

4x Optical Zoom
ONLY £299

### COOLPIX 5400

5 mega pixels SPECIAL OFFER

4x Optical Zoom 28-108mm Zoom
ONLY £199

### COOLPIX 8700

8 mega pixels SPECIAL OFFER

8x Optical Zoom 35-280mm Zoom
ONLY £299

### COOLPIX 7900

7 mega pixels

10x Zoom-Nikkor ED 38-114mm Zoom
£199 or £9/mth

| | | | | | |
|---|---|---|---|---|---|
| Coolpix L2 NEW | £189 | Coolpix S6 | £319 | Coolpix 4500 | £299 |
| Coolpix L3 NEW | £159 | Coolpix P3 NEW | £319 | Coolpix 5400 | £199 |
| Coolpix L4 NEW | £119 | Coolpix S4 | £249 | Coolpix 8700 | £299 |
| Coolpix S5 NEW | £279 | Coolpix P4 | £309 | Coolpix 7900 | £199 |
| Coolpix S6 NEW | £319 | Coolpix P2 | £199 | Coolpix 8400 | £445 |
| Coolpix P3 NEW | £319 | Coolpix S2 NEW | £219 | Coolpix 8700 | £299 |
| Coolpix P4 | £309 | Coolpix S4 | £249 | Coolpix 8800 | £499 |
| Coolpix 4500 | £299 | Coolpix P2 | £199 | | |
| c/w FREE Case & Battery | | Coolpix 5400 SPECIAL OFFER | £199 | | |

YYePG Proudly Presents, Thx for Support

# warehouse express .com

Warehouse Express
PO Box no.659, Norwich NR3 2WN
Tel: 01603 258012 Fax 01603 258950
www.warehouseexpress.com

## Mountboard Cutting Systems

from £85

LONGRIDGE

## NEW ZIGVIEW - Digital Angle Finder

**ZIGVIEW - the worlds first ever Digital Angle Finder, makes low and high level photography easy with its unique rotating LCD monitor.**

*Simply attach to the eyepiece of your SLR camera where the viewfinder image is captured by a CMOS sensor built into the Zigview and relayed in real time to a 1.8inch TFT colour display for easy viewing at any angle.*

*Especially useful for low angle photography where you would struggle to see through the viewfinder especially with macro work or high angle situations such as press work.*

**ZIGVIEW** will work with most digital and film SLR cameras and is supplied with an eyepiece adaptor for common Nikon, Fuji and Canon cameras. Other adaptors for Konica Minolta and Pentax are available as accessories

£109.50

## NEW ZIGVIEW-R

**The world's first TTL Motion Sensor shutter release, Interval & Exposure Timer**
*based on the original Zigview Digital Angle Finder.*

*See website for details*

only £182.99

## STORAGE & PRESENTATION

### Secol

As used by British Museum, National Gallery, National Archives, National Museum of Photography and many more

**Archival Zip Portfolios**
A safe and flexible presentation system for the display and archival storage of digital or conventional prints

A4 + 25 pockets £48.99
A3 + 25 pockets £55.99

**Archival Portfolios Boxes**
The classic solution for archival storage and presentation of photographic prints

A4 + 25 pockets £52.99
A3 + 25 pockets £69.99

**Additional Pockets**
A4 Box Pockets (x50) £36.95
A3 Box Pockets (x50) £59.99

**Mini Portfolios**
The Secol Mini Portfolio is the perfect presentation aid for the Professional Photographer

A4 + 10 pockets £21.95

**Wedding Box**
Wedding Box + 25 A4 pockets £64.50

**Additional Pockets**
Side Entry A4 Album Pockets £17.70
A4 Display Pockets (x50) £36.99

**A-S System Storage Pages**
Film and CD storage
Deluxe Collector's Choice £52.99
Grey Boxboard £14.99

**A-S System Storage Pages**
4x 5"x4" pockets per page £25.99
4x strips of 120 film (x25/box) per page £25.99
7x strips of 6 35mm film per page £25.99
20x 35mm mounted slides per page £25.99
2x CD's plus index cards per page £25.99

**CD Indexed Storage System**
DS01 Storage Box £11.49
Pocket with Index Insert (x25) £9.99

**Additional Pockets**
A4 Pockets (x50) £39.95

**Additional Pockets**
A4 Pockets (x50) £39.95

### Kenro

**Black Envoy Portfolio**
Zip closed portfolios finished in smart black simulated leather with a large, easy carry handle, offering a handy inside pocket.

ENV101 A4 Portfolio £26.99
ENV102 A3 Portfolio £37.49

**Additional Pockets**
KEN011 Pack of 10 A4 pages with Black Card Centre £11.49
KEN332 Pack of 5 A3 pages with Black Card Centre £11.49

**Bielle Professional Albums**
Classic book bound albums, with deep grained simulated leather covers, decorative edge cover stitching and library style spines.

Bielle Album Fiorino Series from £32.98

see our website for the full range

### OPUS

*Digital Fine Art Albums for photos, presentations and memory books*

Capture
Print

As recommended by Andy Rouse

- *20 Sheets of dual side coated pages of archival paper*
- *Print up to 40 or more images*

**Opus Photo Album £39.99**

**Refill Pack**
10 Sheets - Soft Textured £12.99
10 Sheets - High White £12.99

Assemble • Rember

Details on our website

## DIGITAL SLR CCD CLEANING

### VisibleDust Cleaning Products

**Kits & Brushes**

| | |
|---|---|
| Pro 1.3x Kit | £69.99 |
| Econo 1.0x Kit | £64.99 |
| Full Size 1.0F Kit | £69.99 |
| Digital Back CCD Kit | £89.99 |
| 8mm Sensor Brush | £24.99 |
| Sensor Brush SD | £29.99 |
| Arctic Butterfly | £59.99 |

**Complete Bundles**

| | |
|---|---|
| Pro 1.3x Bundle | £199.99 |
| Econo 1.0x Bundle | £195.99 |
| Full Size 1.0F Bundle | £199.99 |

**Accessories**

| | |
|---|---|
| Magic Cleaner | £3.99 |
| Smear Away Kit | £14.99 |
| Sensor Brush Wash | £5.99 |
| Sensors for Sensor | £21.99 |
| 50 Extra High-Grade Sterile Swabs | £5.99 |
| Chamber Clean | £17.99 |
| Extra Chamber Clean Swabs (12) | £5.99 |
| Hurricane Blower | £6.99 |
| Adapters for Sensor Brush SD | £12.95 |
| Mesh Case | £12.95 |

SENSOR SWAB
Pack of 12 £35.95
Pack of 10 £19.99

ECLIPSE Eclipse Cleaning Fluid (59ml) £7.99

PEC-PAD Photowipes (10 x 10cm (100 sheets)) £5.99

**Just Digital**



Intro Kit..£18.50 Intro Kit..£69.95

GREEN CLEAN £55.81

See website

## BATTERIES & POWER

### AA Ni-Mh BATTERIES & CHARGERS

ANSMANN

| | | | |
|---|---|---|---|
| Digispeed 4 | | Energy 8 | £49.95 |
| ULTRA | £59.95 | Energy 16 | £84.95 |
| Digispeed 4 | £49.95 | 4xAA NiMh Batts | |
| Photocam III | £16.95 | 2600mah | £14.99 |
| Energy 4 | £49.95 | | |

See website for full details

**DIGISPEED 4 ULTRA**
The ultimate AA battery charger
Ultra-fast Charging, around 30 minutes for 2400mAh AA Batteries
£59.95
• Includes 4x AA 2400mAh NiMH Batteries

**DigiCharger Plus**
Universal charger for NiCd/NiMH cells size AA or AAA, as well as 3.6V and 7.2 V Li-Ion battery packs for digital cameras.
£39.95

**LITHIUM-ION BATTERIES** 2 year Guarantee

Hahnel Power Solutions for DIGITAL CAMERAS

CRV-3 £29.99
• *100% compatible*
• *Quality Assured*

**Save £££'s over manufacturers branded batteries**

| | | | |
|---|---|---|---|
| Hahnel HL-1LH (Canon) | £19.99 | Hahnel HL-200 (Minolta | £24.99 |
| Hahnel HL-2LHP (Canon) | £24.99 | Hahnel HL-ELI (Nikon) | £24.99 |
| Hahnel HL-511 (Canon) | £24.99 | Hahnel HL-10B (Olympus) | £19.99 |
| Hahnel HL-20 (Casio) | £24.99 | Hahnel HL-60 (Pentax) | £19.99 |
| Hahnel HL-80 (Fuji) | £19.99 | **Powerstation Rechargables** | |
| Hahnel HL-60 (Fuji) | £19.99 | Ultima | £29.99 |
| Hahnel HL-84 (Konica) | £24.99 | Rechargeable CRV-3 | £29.99 |
| Hahnel HL-900 (Kyocera) | £29.99 | See website for our full range of Hahnel Products | |
| Hahnel HL-LC1 (Leica) | £24.99 | | |

## PORTABLE STORAGE

BEST BUY

**SMARTDISK FlashTrax XT**
*Transfer and store photos from flash memory cards, view on the 3.8" LCD or TV*
Plus FREE 5 in 1 Card Adapter & Scart Adapter worth £45

**40GB FlashTrax XT**
RRP £299.99
now £229
SAVE £70

Also available...
SMARTDISK FlashTrax XT 80GB....£299

**EPSON P-2000**
*3.8 inch Photo Fine colour display, 40GB hard drive and long battery life*
P-2000 40GB.....£328.00
P-2000 80GB.....£479.00
Spare Battery.....£54.99

**Giga ONE 40GB PORTABLE STORAGE**
Cool Blue LCD Screen
only £99
See Andy Rouse Review

**Giga Vu Pro**
*40GB hard drive, 3.8 inch colour screen and a host of professional features*
Giga Vu Pro 60GB...£199.00

**Innoplus i-WITH** NEW
- *Memory Card Backup*
- *Digital Photo Viewer*
- *Movie Player + MP3 Player*
- *USB HDD*

40GB...£269 80GB...£309

**COOLWALKER Nikon MSV-01**
COOLWALKER MSV-01 .....£329.00

**SMARTDISK FotoChute 20GB only £79**

**SMARTDISK Firefly**
20GB.....£99.99

**Vosonic X'S Drive2XL VP2260**
*40GB + 80GB Hard Disk Supports all card types*
VP2260 40GB.....£99.00
VP2260 80GB.....£149.00
REDUCED

**Vosonic X'S Drive MP3 VP3650**
*A compact portable Hard disk to backup your memory cards*
VP3650 20GB...£149.00
VP3650 30GB...£179.00

**Vosonic X'S-DriveVP6230**
*An all-in-one portable storage device, music and video player and 13-in-1 card reader*
VP6230 40GB...£199.00
VP6230 80GB...£249.00

**Vosonic VP6310**
*an all-in-one portable storage device, music and video player and 13-in-1 card reader*
VP6310 20GB...£259.00

**Vosonic VP8350**
*Support to view Text, Photos or Digital Movies, MTV on a colour LCD or TV*
VP8350 20GB...£279.00

**DIGIMAGIC DM 220 8x**
*Writes CD's direct from memory cards*
DIGIMAGIC DM 220 8x.....£119.00

**APACER Disk Steno CP300**
*Writes DVD's/CD's direct from memory cards*
Disk Steno CP300.....£259

**DELKIN DVD BurnAway**
*Burn DVDs direct from your memory card*
DVD BurnAway.....£259

## DIGITAL CAMERA ACCESSORIES

**For a comprehensive list of Digital Camera accessories from all the major manufacturers visit our website**

### Nikon

Remote Cord MC-EU1 for 880, 885, 4300, 990, 995, 4500, 5000, 5700 £99.99

**Lenses**

**Tele Converter Lenses**

| | | | |
|---|---|---|---|
| TC-E2 | £105.99 | TC-E3ED | £219.99 |
| TC-E3PF | £499.99 | TC-E15ED | £149.99 |
| TC-E17ED | £329.99 | | |

FULL RANGE ON OUR WEBSITE

**Wide Converter Lenses**

| | | | |
|---|---|---|---|
| WC-E24 | £75.99 | WC-E63 | £105.99 |
| WC-E68 | £139.99 | WC-E75 | £179.99 |
| WC-E80 | £149.99 | | |

FULL RANGE ON OUR WEBSITE

Fisheye Coverters....from £249.99

Please note: A conversion lens adaptor may be required for all lenses listed here - see website for details

**Batteries & Power**

**Lith-ion Batteries**

| | | | |
|---|---|---|---|
| EN-EL1 | £39.99 | EN-EL7E | £49.99 |
| EN-EL2 | £39.99 | EN-EL8 | £29.99 |
| EN-EL5 | £29.99 | EN-MH1 | |
| EN-EL7 | £39.99 | NIMH | £5.99 |

**Chargers & Adaptors**

| | | | |
|---|---|---|---|
| EH-21 | £59.99 | MB-D80 | |
| EH-53 | £39.99 | $5700 | £124.99 |
| EH-54 | £29.99 | MB-D100 | |
| EH-60 | £19.99 | CP10 | £124.99 |
| EH-61 | £19.99 | MB-D200 | |
| EH-62A | £29.99 | CP11 | £124.99 |
| EH-62B | £29.99 | MH-53 | £24.99 |
| EH-62C | £ | MH-53C | £49.99 |
| EH-63 | £29.99 | MH-56 | £24.99 |
| MB-E5000 | £124.99 | MH-60 | £24.99 |
| | | MH-61 | £19.99 |
| | | MH-62 | £19.99 |

**Coolstation MV-II** for S1/S2/S3/S4 £39.99

**Nikon Camera Cases**

| | |
|---|---|
| 22/32/41/42/52/46/56/76/7900 | £19.99 |
| S1/S2/S3/S4 | £19.99 |
| P2 | £10.00 |
| COOLPIX 995/4500 SPECIAL OFFER £10.00 | |
| COOLPIX S400/8400 | £29.99 |

**Waterproof Housing**

WP-CP1 £169.99
WP-CP2 £169.99

See Website for the full range of Nikon accessories

### Canon

See Website for the full range of Canon accessories

**Tele Converter Lenses**

| | |
|---|---|
| TC-DC58 | £79.00 |
| TC-DC58B | £99.00 |
| TC-DC58N | £79.00 |
| TC-DC58A | £199.00 |
| TC-DC52 | £99.00 |
| TC-DC52A | £79.00 |
| TC-DC52B | £99.00 |
| TC-DC10 | £99.00 |

**Wide Converter Lenses**

| | |
|---|---|
| WC-DC10 | £99.00 |
| WC-DC58A | £99.00 |
| WC-DC58N | £109.00 |
| WC-DC52 | £79.00 |
| WC-DC52A | £99.00 |

Please note: A conversion lens adaptor is required for all lenses listed here - see website for details

**Battery Grips**

| | |
|---|---|
| BG-E1 | £79.99 |
| BG-E2 | £149.99 |
| BG-E3 | £119.99 |
| BG-ED3 | £149.99 |
| BG-E4 | £169.99 |

**Lith-ion Batteries**

| | |
|---|---|
| BP511A | £54.99 |
| NB1 LH | £35.00 |
| NB2 LH | £45.00 |
| NB3L / 4L | £29.00 |
| NB 4H / 5H / 6N | £35.00 |

**Battery Chargers**

| | |
|---|---|
| CA DC 20E | £45.00 |
| CA 560 | £59.99 |
| CB-1L | £18.00 |
| CB2 | from £35.00 |
| CBK4 | £40.00 |
| Powershot | £40.00 |
| Car Battery Chargers | from £49.00 |

Canon AC Adaptors from £45.00
- See website for details -

**Canon Soft Camera Cases**

| | | | |
|---|---|---|---|
| IXUS | £15.00 | SC-DC10 | £15.00 |
| SC-PS | All £18.00 | SC-DC20 | £16.00 |
| DCC 10/20/30 | £25.00 | SC-DC30 | £20.00 |
| DCC 40 | £15.00 | SC-DC40 | £18.00 |
| DCC 50-400 | £19.99 | SC-DC70 | £19.00 |
| DCC BG | £16.00 | Leather Case | £15.00 |

**Waterproof Casing**

| | | | |
|---|---|---|---|
| AW DC10-50 | £99.00 | AW PS200 | £149.00 |
| WP DC1-900 | £149.00 | IXUS 300WPC | £149.00 |

## SOFTWARE

**DIGITAL PHOTO**
Photoshop - Getting Started..£19.99 DIGITAL PHOTO

**Alienideas**
FocusON - guide to digital imaging £24.99

**Apple**
Aperture NEW £149.00

**Adobe Software**

See website for all Adobe software

| | |
|---|---|
| Photoshop Elements 3 (mac) | £69.99 |
| Photoshop Elements 4.0 (win) SPECIAL OFFER £49.99 | |
| Photoshop Elements 4.0 plus | |
| Premier Elements 2.0 (win) NEW | £99.99 |
| Photoshop CS 2.0 | £509 |
| Photoshop CS 2.0 Upgrade | £149 |

**NEW ADOBE SOFTWARE**

| | |
|---|---|
| NEW Adobe Production Studio Premium 1.0 Win | £699 |
| NEW Adobe Premiere Pro 2.0 Win | £799 |
| NEW Adobe After Effects Pro 7.0 Win | £1079 |
| NEW Adobe After Effects Pro 7.0 Mac | £1079 |
| NEW Adobe After Effects Pro 7.0 Upgrade from Pro Win | £199 |
| NEW Adobe After Effects Pro 7.0 Upgrade from Pro Mac | £199 |
| NEW Adobe After Effects Pro 7.0 Upgrade from Standard Win | £489 |
| NEW Adobe After Effects Pro 7.0 Upgrade from Standard Mac | £489 |
| NEW Adobe After Effects Standard 7.0 Win | £669 |
| NEW Adobe After Effects Standard 7.0 Mac | £669 |
| NEW Adobe After Effects Standard 7.0 Upgrade from Std Win | £199 |
| NEW Adobe After Effects Standard 7.0 Upgrade from Std Mac | £199 |
| NEW Adobe Audition 2.0 Win | £289 |
| NEW Adobe Audition 2.0 Upgrade Win | £109 |
| NEW Adobe Encore DVD 2.0 Win | £179 |
| NEW Adobe Encore DVD 2.0 Upgrade Win | £125 |

**Alien Skin Software**

| | | | |
|---|---|---|---|
| Eye Candy 5: Textures | £89 | Eye Candy 4000 | £139 |
| Image Doctor | £99 | Splat! | £89 |
| Triple Bundle | £209 | Xenofex 2.0 | £109 |

**Roxio**

| | | | |
|---|---|---|---|
| Easy Media Creator 7.5 | £29.99 | Toast 6 | £49.00 |
| Easy Media Creator 8.0 | £59.99 | Toast 6 with Jam | £149.00 |
| | | Toast 7 | £69.99 |
| | | Popcorn | £34.00 |
| | | Photosuite | £49.00 |
| | | Video Wave | £59.00 |
| | | Easy | from £19.00 |

**Extensis / OnOne**

| | |
|---|---|
| Extensis Photo Imaging Suite | £349.00 |
| Extensis Portfolio 8 | £149.00 |
| OnOne Intelliflance Pro 4.1 | £135.00 |
| OnOne Plug-In-Suite | £270.00 |
| OnOne Genuine Fractals | £135.00 |
| OnOne Mask Pro 3.0 | £135.00 |
| OnOne PhotoFrame 2.5 | £135.00 |
| OnOne Smartscale 1.0 | £135.00 |

**COREL Software**

| | |
|---|---|
| Paint Shop Photo Album 5 | £20.00 |
| Paint Shop PRO Album 6.0 | £25.00 |
| Paint Shop PRO X (win) SPECIAL OFFER £69.00 | |
| Paint Shop PRO X Upgrade | £40.00 |

**Phase one**

| | | | |
|---|---|---|---|
| C1 Pro V3.7 (win/mac) | £299.00 | C1 LE V3.7 (mac) | £69.00 |
| C1 LE V3.7 (win) | £69.00 | | |

**Fixer lab**
FocusFixer Vision Bundle £45.00 SizeFixer SLR £159.00

**NiK Software**

| | | | |
|---|---|---|---|
| Dfine 1.0 | £99 | Sharpener Pro! 2.00 Complete | £269 |
| Colour Efex Pro 2.0 from | £99 | Sharpener Pro! 2.00 Inkjet | £129 |
| Sharpener Pro! Inkjet | £99 | | |

**Nikon**

| | | | |
|---|---|---|---|
| Capture 4.4 Software | £119.00 | View Pro | £34.99 |
| Capture NX | £119.99 | | |

**Photo-I DVD**
A guide to Digital Photography £19.95

### OLYMPUS FUJIFILM PENTAX

accessories see our website

## ExpoDisc

**The Best White Balance Solution for Digital Cameras and Digital Video**

- *Fine tune your colour at point of capture*
- *Works in mixed, or difficult lighting*
- *Replaces your grey cards and white cards*
- *Speed more time shooting and less on workflow*

| | | | |
|---|---|---|---|
| 58mm | £57.99 | 72mm | £71.99 |
| 62mm | £62.99 | 77mm | £78.99 |
| 67mm | £67.99 | 82mm | £91.99 |

See website for full details

**ExpoDisc Digital Warm Balance Filters**
*The Warm Balance Solution for Digital Cameras and Digital Video*

| | | | |
|---|---|---|---|
| 58mm | £57.99 | 77mm | £71.99 |
| 62mm | £62.99 | 82mm | £78.99 |
| 67mm | £67.99 | | |

## USB STORAGE DRIVES

**Simply plug the device into a PC or Mac and instantly download, store and transfer data**

**Fujifilm USB 2.0 High Speed Pen Drives**
*Can be slotted straight into your PC or laptop, enabling fast transfer of all documents, images and music files to and from all compatible digital devices.*

| | |
|---|---|
| High Speed Pen Drive 256MB | £24.99 |
| High Speed Pen Drive 512MB | £34.99 |
| High Speed Pen Drive 1GB | £59.99 |

**Sandisk Cruzer Micro**

| | |
|---|---|
| Cruzer Micro 256MB | £20.99 |
| Cruzer Micro 512MB | £34.99 |
| Cruzer Micro 1GB | £64.99 |
| Cruzer Micro 2GB | £129.99 |

**Sandisk Cruzer Titanium**

| | |
|---|---|
| Cruzer Titanium 512MB | £44.99 |
| Cruzer Titanium 1GB | £79.99 |
| Cruzer Titanium 2GB | £159.99 |

**Sandisk Cruzer Profile**

| | |
|---|---|
| Cruzer Profile 512MB | £32.99 |
| Cruzer Profile 1GB | £52.99 |

**Lexar JumpDrive Pro 2.0**

| | |
|---|---|
| JumpDrive Pro 2.0 256MB | £29.99 |
| JumpDrive Pro 2.0 512MB | £49.99 |

## MEMORY CARDS, READERS

### SanDisk

**Compact Flash**

| | |
|---|---|
| 256MB | £15.49 |
| 512MB | £24.99 |
| 1GB | £39.99 |
| 2GB | £67.99 |
| 4GB | £134.99 |

**ULTRA II CompactFlash**

| | |
|---|---|
| 512MB | £28.99 |
| 1GB | £47.99 |
| 2GB | £75.99 |
| 4GB | £151.99 |
| 8GB | £302.00 |

**Secure Digital SD**

| | |
|---|---|
| 256MB | £14.30 |
| 512MB | £24.19 |
| 1GB | £39.99 |
| 2GB | £63.00 |

**Ultra II SD**

| | |
|---|---|
| 512MB | £28.99 |
| 1GB | £47.99 |
| 2GB | £75.99 |

**SanDisk Extreme III Compact Flash**

| | |
|---|---|
| 1GB | £55.99 |
| 2GB | £88.99 |
| 4GB | £176.99 |

**Secure Digital SD**
1GB £58.89

**Memory Stick Pro**

| | |
|---|---|
| 1GB | £64.99 |
| 2GB | £124.99 |

**Ultra II Memory Stick Pro**

| | |
|---|---|
| 512MB | £35.99 |
| 1GB | £57.99 |
| 2GB | £109.99 |
| 4GB | £209.99 |

**Ultra II Memory Stick Pro Duo**

| | |
|---|---|
| 512MB | £35.99 |
| 1GB | £57.99 |
| 2GB | £109.00 |

**Memory Stick Pro Duo**

| | |
|---|---|
| 256MB | £22.99 |
| 512MB | £29.99 |
| 1GB | £49.99 |
| 2GB | £94.99 |

NEW **SanDisk Ultra II Plus SD**
*This card transitions from an SD card to a USB adapter with our unique hinged cover.*

| | |
|---|---|
| 512MB | £33.99 |
| 1GB | £53.99 |

### OLYMPUS

**XD Picture Cards**

| | |
|---|---|
| 256MB | £22.99 |
| 512MB | £39.99 |
| 1GB | £59.99 |

NEW **SMARTDISK Photobank 40GB £99**

### Lexar

**CompactFlash 40x USB**

| | |
|---|---|
| 256MB | £19.99 |
| 512MB | £24.99 |
| 1.0GB | £49.99 |

**Compact Flash 80x USB**

| | |
|---|---|
| 1GB | £34.99 |
| 2GB | £89.99 |
| 4GB | £199.99 |

**Professional 133x Compact Flash**

| | |
|---|---|
| 1GB | £59.99 |
| 2GB | £99.99 |
| 4GB | £179.99 |

**Secure Digital SD**

| | |
|---|---|
| 64MB | £9.99 |
| 128MB | £10.99 |
| 256MB | £15.99 |
| 512MB | £27.99 |
| 1GB | £44.99 |

**Secure Digital SD 40x**

| | |
|---|---|
| 256MB | £24.99 |
| 512MB | £34.99 |
| 1GB | £49.00 |

**Professional 133x SD**

| | |
|---|---|
| 1GB | £55.99 |
| 2GB | £99.99 |

**Memory Stick Pro**

| | |
|---|---|
| 256MB | £34.99 |
| 512MB | £54.99 |
| 1.0GB | £99.99 |

### FUJIFILM

**XD Picture Cards**

| | |
|---|---|
| 128MB | £12.99 |
| 256MB | £19.99 |
| 512MB | £36.99 |
| 1GB | £65.99 |

**Compact Flash 20x**

| | |
|---|---|
| 128MB | £13.99 |
| 256MB | £17.99 |
| 512MB | £26.99 |
| 1GB | £45.99 |

**Multi Card readers USB 2.0**

| | |
|---|---|
| Sandisk 5-in-1 Reader | £14.99 |
| Sandisk 12-in-1 Reader | £24.99 |
| Lexar Multi-Card Reader | £24.99 |
| Fuji 6-in-1 Reader | £34.99 |
| Sandisk Dazzle 990 Camera/Phone Manager | £49.99 |

**Single Card readers USB 2.0**

| | |
|---|---|
| Sandisk Reader CF | £14.99 |
| Sandisk Reader Memory Stick | £11.99 |
| Lexar CompactFlash Reader | £14.99 |

**FIREWIRE Readers**
Lexar FireWire CF Reader £29.99

**Card Adapters**

| | |
|---|---|
| CF to PCMCIA Adaptor | £10.99 |
| XD to PCMCIA Adaptor | £44.99 |
| SD to PCMCIA Adaptor | £22.99 |
| XD to CF Adaptor | £39.99 |
| SM to PCMCIA Adaptor | £14.99 |

**Gepe**

**Gepe CardSafe**
*The new Gepe CardSafe range offers the ultimate protection for your valuable memory cards.*

| | |
|---|---|
| CardSafe Slim | £4.99 |
| CardSafe Basic | £5.99 |
| CardSafe Extreme Onyx | £9.99 |
| CardSafe Extreme Neon | £9.99 |

YYePG Proudly Presents, Thx for Support

# PRINTERS

## HP Photosmart 8050

6x4" Prints in 27 seconds

only £88

See website for details

## HP Photosmart 8750

£269

Print professional photos up to A3+ in true, neutral black & white with low metamerism, or rich, beautiful colour.

## Photosmart Printers

| | |
|---|---|
| Photosmart 335 | £99 |
| Photosmart 385 | £149 |
| Photosmart 475 | £179 |
| Photosmart 2575 | £139 |
| Photosmart 3210 | £179 |
| Photosmart 3310 | £269 |
| Photosmart 8250 | £149 |
| Photosmart 8750 | £269 |

see website for details

## HP Digital Cameras

from £85

## HP Scanners

from £69

## HP Printers

from £69

## Maxtor Hard Drives

Maxtor

See our website for the new Maxtor One Touch III range of desktop hard drives

from £99-£379

1GB-1TB

USB

USB + Firewire

Turbo Edition

## SmartDisk Network Drives

Crossfire Hard Drives from £84.99

NDAS Network Hard Drives

Ethernet & USB 2.0 Combination

160GB..£148.99

250GB..£199.99

400GB..£299.99

## Lacie External Hard Drives

We keep comprehensive range of Lacie External Hard Drives with capacities up to 2 Terabytes (TB)

NEW Safe Mobile From £99

Biometric fingerprint recognition

NEW 4Big Hard Drive Extreme II From £119

NEW Big Disk Extreme II From £269

Visit our website for more details

## LaCie Ethernet Disk Mini

| | |
|---|---|
| 20GB | £165 |
| 300GB | £189 |
| 400GB | £269 |
| 500GB | £339 |

LaCie introduce their first NAS server range

## Canon BU-20 Bluetooth Adapter £57.95

for Pictbridge Canon, printers

## Canon

Canon launch new range of inkjet printers - see website

### Canon MP170

£75

### Canon PIXMA MP800

£299 NEW

### Canon i9950 SUPER BUY

£358

### Canon PIXMA iP9500

£212

### Canon PIXMA iP5200R

£159

### Canon PIXMA iP5200

£119

### Canon PIXMA iP1600

£42

### Canon PIXMA iP2200

£59

### Canon PIXMA iP4200

£79

### Canon Inkjet Printers

| | | | | | |
|---|---|---|---|---|---|
| PIXMA iP1600 | £42.00 | PIXMA iP8500 | £212.00 | PIXMA MP780 | £209.00 |
| PIXMA iP2000 | £65.00 | PIXMA iP90 | £175.00 | PIXMA MP800 NEW | £229.00 |
| PIXMA iP2200 | £59.00 | i6500 | £309.00 | PIXMA MP830R NEW | £299.00 |
| PIXMA iP4200 | £79.00 | i9950 | £358.00 | PIXMA MP830 NEW | £299.00 |
| PIXMA iP5200 | £119.00 | PIXMA MP150 | £55.00 | | |
| PIXMA iP5200R | £159.00 | PIXMA MP170 | £75.00 | | |
| PIXMA iP6210D NEW | £79.00 | PIXMA MP450 | £109.00 | | |
| PIXMA iP6220D NEW | £99.00 | PIXMA MP500 | £139.00 | | |

Visit our website for the latest prices

## EPSON

### EPSON Stylus Photo R240

£85

### EPSON Stylus Pro R800

£219

### EPSON Stylus Photo R1800

£320

### EPSON Stylus PRO 4800

£1599

### EPSON PictureMate 500

£149

### EPSON Photo 2400

£509

### Epson Inkjet Printers

NEW R240 & R340 - see website

| | | | |
|---|---|---|---|
| WPictureMate 500 | £149.00 | Stylus Photo R1800 | £320.00 |
| Stylus Photo R220 | £69.00 | Stylus Photo R2400 | £509.00 |
| Stylus Photo R240 | £85.00 | Stylus Photo 12905 | £238.00 |
| Stylus Photo R340 | £129.00 | Stylus PRO 4800 | £1599.00 |
| Stylus Photo RX520 | £129.00 | Stylus PRO 4000 NEW | £979.00 |
| Stylus Photo RX640 NEW | £199.00 | Stylus PRO 4000 c/w RIP NEW | £1279.00 |
| Stylus Photo RX700 | £259.00 | | |
| Stylus Photo R800 | £219.00 | | |

# DIGITAL PRINTERS

## Canon

### Canon DS810

- Easy to use
- View, edit & print digital photos PC free
- Photo quality, durable prints
- PictBridge compatible

No PC required

£99

### Canon CP510

- High quality, durable colour photo prices
- 6"x4" Prints in under 60 Seconds
- PictBridge compatible

No PC required

£79

### Canon SELPHY Digital Printers

| | |
|---|---|
| SELPHY DS810 | £99.00 |
| SELPHY CP510 NEW | £79.00 |
| SELPHY CP710 NEW | £89.00 |
| 6" x 4" Paper | £9.99 (36) £25.99 (108) |

£89

## Sony

Sony DPP-FP30 SONY £99

Sony DPP-FP50 £149 SONY

Sony 6"x4" Paper Set (40) £12.99 (80) £19.99 (120) £27.99

## Olympus

### P-440

Make vivid, borderless color prints at home with a printer that's almost as small as the 4"x6" (approx.) output it produces.

£329 OLYMPUS

### P-11

With the super fast P-11 printer, you can print out top-quality A6 images in just 33 seconds.

£99.00 OLYMPUS

### Accessories for Olympus P-10 & P-440

**P-11 Accessories**

P-11B Paper & Ribbon 40 sheets ..... £19.99

P-11BW Paper & Ribbon 100 sheets ..... £29.99

**P-440 Accessories**

| | |
|---|---|
| A4 Standard Paper 100 sheet | £89.99 |
| A4 Postcard Paper 25sheets | £24.99 |
| A5 Standard Paper 25 sheets | £29.99 |
| Ink Ribbon (for 50prints) | £59.99 |

## Hi-Touch

Imaging Technologies (UK)

730PS

£299

See the full range on our website

## Kodak

1400 Digital Photo Printer

An Easy-to-Use, Affordable Thermal Printer for professional and Advanced Amateur photographers that delivers outstanding quality and durability of KODAK prints immediately.

Kodak NEW £349

# MULTIFUNCTIONAL PRINTERS

## Canon

### PIXMA MP800

Print directly from 35mm film, digital cameras, memory cards and camera phones.

£229

### PIXMA MP780

All-in-One: Photo Print, Scan, Copy, Camera Direct Printing

£189

## EPSON

### Stylus Photo RX700

All-in-One: Printer, Scanner, Copier at an affordable price.

£269

### Stylus Photo RX640

Advanced All-in-One home photo centre for all your photo needs

£199

# INKJET CARTRIDGES & INKJET PAPER

See the full range of inkjet cartridges and paper on our website

## Inkjet Paper

### EPSON

A4 Inkjet paper from £7.49

### Olmec

A4 Inkjet paper from £6.49

### Parma

A4 Inkjet paper from £6.99

### TETENAL

A4 Inkjet paper from £4.99

### Canon

A4 Inkjet paper from £5.99

### FUJIFILM

A4 Inkjet paper from £8.99

## Inkjet Cartridges

Canon EPSON

For genuine Epson and Canon inkjet cartridges see our website

# WACOM GRAPHICS TABLETS

### PenPartner2

£34.99

### Volito 2

£39.99

### Graphire 4

Classic £74.99

Classic XL £149.99

Studio £109.99

Studio XL £179.99

Graphire Bluetooth A5 ..... £149

### I/nTUOS 3

NEW A5 Wide £279

A3 Wide £559

| | |
|---|---|
| A6 | £139 |
| A5 | £219 |
| A4 | £339 |

INTUOS 3 AirBrush £109.99

INTUOS 3 Mouse £29.99

### INTUOS 2

Intuos2 A4 oversize USB ..... £469

Intuos2 A3 USB ..... £689

### INTUOS 2 Pen Options

| | |
|---|---|
| Airbrush | £109.99 |
| Designer | £99.99 |
| Grip Pen | £74.99 |
| Ink | £74.99 |
| Stroke | £74.99 |

### Cintiq 15X / 21UX

Cintiq 15X ..... £1199

Cintiq 21UX ..... £2199

## Data Projectors

### TOSHIBA

From £699.00

### EPSON

From £629.00

For our full range of data projector visit our website

## Recordable CD/DVD's

### FUJIFILM

We now stock the full range of Fuji CD + DVD media

CD's from 20p • DVD's from 52p

Visit our website for more details

# SCANNERS

## Canon Scanners

### Canon Canoscan 9950F

- 4800 x 9600dpi, 48bit colour
- FAU (30x35mm, 120 roll, 4x5")
- FARE L3 dust/scratch removal (GARE L3 for photos)
- USB 2.0 Hi-Speed & IEEE 1394 (FireWire)
- S/Ware package includes Adobe PhotoShop Elements 2.0

£259.00

### Canon Canoscan 8400F

£139

### Canon Flatbed/Film Scanners

| | |
|---|---|
| LiDE 25 | £49.00 |
| LiDE 60 | £59.00 |
| LiDE 500F | £119.00 |
| 4200F | £69.00 |
| 8400F | £139.00 |
| 9950F | £259.00 |

## EPSON Scanners

### EPSON Perfection 4990 Photo

- High optical density up to 4.0 dmax
- 4800 x 9600dpi for superior scanning results
- Built-in transparency unit for multi-format film scanning
- Digital Ice - for dust and scratch removal

TESTER'S CHOICE

£309.00

### EPSON Perfection 4490 Photo

£179

### EPSON Flatbed/Film Scanners

| | |
|---|---|
| Perfection 3490 Photo | £79.00 |
| Perfection 3590 Photo | £99.00 |
| Perfection 4490 Photo | £179.00 |
| Perfection 4990 Photo | £309.00 |
| Perfection V700 NEW | £379.00 |

## HP Scanners

### HP Scanjet 5530

£179.00

### HP Flatbed Scanners

| | |
|---|---|
| Photosmart 1200 | £69.00 |
| Scanjet 4600 | £129.00 |
| Photosmart 4670 | £139.00 |
| Scanjet 5530 | £179.00 |

# FILM SCANNERS

## Nikon Film Scanners

| | |
|---|---|
| Nikon Coolscan V ED | £425.00 |
| Nikon Super Coolscan 5000ED | £695.00 |
| Nikon Super Coolscan 9000ED | £2149.00 |

## EPSON Film Scanners

### EPSON F3200

- High speed, high quality 35mm film scanner
- Film scanning from 35mm to 8"x4"
- USB 2.0 Hi-Speed and IEEE 1394 (FireWire) connectivity
- Preview images with built-in LCD screen

£489

# COLOUR MANAGEMENT

For screen and print calibration

£59.00

Spyder2 Spyder2PRO

Spyder2 £139.00

Spyder2PRO £180.00

PrintFIX from £199.00

PANTONE See website

Huey ..... £69.95

Eye-On ..... £129.95

Eye One display ..... £194.95

Essentials ..... £205

Formulae Guide

Designer ..... £69

Formulae Guide Editor ..... £90

Colour Bridge Guide ..... £85

## Colorvision

| | |
|---|---|
| ColorPlus | £59.00 |
| Spyder2 | £139.00 |
| Spyder2Plus Kit | £159.00 |
| Spyder2 Pro | £180.00 |
| Spyder TV | £149.00 |
| PrintFIX Pro | £199.00 |
| PrintFIX Pro Suite | £480.00 |

## Monaco X-Rite

| | |
|---|---|
| EZ Colour | £179.00 |
| Optix XR | £169.00 |
| Optix XR Pro | £259.00 |
| EZ Colour + Optix XR | £339.00 |
| EZ Colour + Optix XR Pro | £429.00 |
| X-Rite Pulse Colour Elite RGB | £729.00 |
| X-Rite Pulse Colour Elite RGB + Optix | £829.00 |

## Gretag Macbeth

| | |
|---|---|
| Eye-One Display 2 | £179.00 |
| Eye-One Photo new version | £995.00 |
| Eye-One Photo SG NEW | £1129.00 |

## Kodak

Colour Management Check Up Kit ..... £49.00

# PROFESSIONAL MONITORS

19" LCD ..... £679

from £499 Photo Vision II 20" LCD

from £669 300 Series 19" LCD

from £1099 300 Series 21" LCD

Lacie Calibrators

Blue Eye 2 £159

Blue Eye PRO £239

EIZO ColorEdge Series from £939

NEW LaCie LCD Monitors

19" ..... £299

20" ..... £489

see website

## NEC/Mitsubishi

| | |
|---|---|
| Spectraview 1980 19" LCD | £679.00 |
| Spectraview 2180 21" LCD | £1049.00 |

## LaCie

**LCD Monitors**

| | |
|---|---|
| Photon Vision II 20" LCD | £499.00 |
| Photon Vision II 20" LCD + Hood + Footclamp | £699.00 |
| 300 Series - 319 19" LCD | £629.00 |
| 300 Series - 321 21" LCD | £1099.00 |

**Calibrators**

| | |
|---|---|
| Blue Eye 2 CRT/LCD Calibrator | £159.00 |
| Blue Eye PRO Calibrator | £239.00 |

## EIZO - ColorEdge Series

| | |
|---|---|
| ColorEdge CG19 | £1049.00 |
| ColorEdge CG21 | £1449.00 |
| ColorEdge CG220 | £3299.00 |

## VisibleDust

complete range in stock

See the videos on our website

NEW see website for details

GREEN CLEAN

Sensor Cleaning Kit £55.81

Everything in stock with product details on our website

## Visit our website for...

Andy Rouse's

Monthly Newsletters

Courses & Seminars

Showcase Gallery

Exclusive to Warehouse Express

## Order Lines

Mon-Fri 9am-5pm

tel: 01603 258012

fax: 01603 258950

Telephone your order TODAY

NEXT DAY delivery £3.99 to £7.95

Mon-Fri (Sat extra)

Saturdays, Northern Ireland, Scotland & Channel Islands delivery extra. 24hr delivery not applicable to chq. payments. E. & O.E. Prices subject to change. Goods subject to availability. We do not send goods on approval except by prior arrangement

YYePG Proudly Presents, Thx for Support

# the digital camera company

**2004 RETAILER OF THE YEAR**
Pricerunner.com

## Canon

### EOS 350D kit

8 megapixels | 18-55mm lens included | 1.8" TFT LCD

The EOS 350D marries the power of digital photography with the feature set and expandability synonymous with the EOS name. 18-55mm lens included.

Price ..... £523.00

### EOS 30D 18-55mm lens kit

8 megapixels | 18-55mm lens included | 2.5" TFT LCD

The Canon EOS 30D is the 8 megapixel semi-professional digital SLR, delivering the speed, precision and flexibility synonymous with high-end film SLR cameras.

Price ..... £993.00

## Nikon

### D50 18-55mm lens kit

6.1 megapixels | 18-55mm lens included | 2.0" TFT LCD

The 6.1 megapixel D50 is the ideal introduction to digital SLR photography, with a wide range of automatic features to make great photographs easily. 18-55mm lens included.

Price ..... £427.00

### Coolpix P3

8.1 megapixels | 3.5x optical | wi-fi ready

Nikon Coolpix P3 has an exceptional 8.1 megapixel resolution and a vast array of advanced features for photographic enjoyment.

Price ..... £289.00

## FUJIFILM

### Finepix V10

5.0 megapixels | 3.4x optical | 5.7x digital

5 megapixels, a 3.4x optical zoom, and an impressive 3-inch LCD screen. With lightning-quick response times, this is a highly efficient and user-friendly camera.

Price ..... £226.00

### Finepix F10

6.3 megapixels | 3.0x optical | 2.5" TFT LCD

The F10 zoom, with a 500-shot battery life and an incredible sensitivity range that stretches from ISO 80 to 1600, is a camera to be used at any time of the day or night.

Price ..... £209.90

## Canon

### Canon S1 IS

3.2 megapixels | 10x optical | enhanced movie mode

The Canon Powershot S1 IS lets you get incredibly close to your subject. Its 10x optical zoom lens with (IS) image stabilising is ideal for detailed shots.

Price ..... £129.00

### CP510

300 x 300 DPI | postcard size pics in 60 sec | wide size 4" x 8" available

Treasure your family's memories as glossy, durable photos from the Selphy CP510. Immediate high-quality prints direct from your digital camera.

Price ..... £63.00

## KONICA MINOLTA

### Z5

5.0 megapixels | 12x optical | 2.0" TFT LCD

The Konica Minolta Dimage Z5 allows you to get close to the action from a distance, with its powerful mega zoom. It provides a focal length equivalent to 420mm.

Price ..... £174.00

## SAMSUNG

### i5

5.0 megapixels | 3x optical | 2.5" TFT LCD

Small and sure, the Samsung i5 is equipped with a complete set of user-friendly features for simple, worry-free photography. Includes docking cradle, software, AV & USB cables.

Price ..... £149.00

## Panasonic

### DMC-FZ30B

8.0 megapixels | 12x stabilized optical | 2.0" TFT LCD

The Panasonic Lumix DMC-FZ30B; a new 8 megapixel digital camera combines Lecia lens with 12x optical zoom, with advanced mega optical image stabilizer.

Price ..... £366.00

### DMC-FZ7B

6.0 megapixels | 12x stabilized optical | 4x digital

The Panasonic Lumix DMC-FZ7 in silver, new to the Lumix range - with a Leica DC Vario-Elmarit lens, 12x optical zoom, 6 megapixels with mega optical image stabilizer.

Price ..... £290.00

# www.digital-cameras.com

VISA | MasterCard | 0% credit avaliable

## Sales hotline: 0870 224 7813

YYePG Proudly Presents, Thx for Support

Prices quoted in this advert were correct at the time of going to press. Please confirm any prices on our website.

# Call us now and get your camera delivered tomorrow!

## Compact flash

**SanDisk**

| | |
|---|---|
| 256 Mb | £15.00 |
| 512 Mb | £26.00 |
| 1 Gb | £39.00 |
| 256 Mb Ultra II | £23.60 |
| 512 Mb Ultra II | £28.00 |
| 1 Gb Ultra II | £49.00 |
| 2 Gb Ultra II | £79.00 |

**Kingston**

| | |
|---|---|
| 512 Mb | £18.00 |
| 512 Mb Elite Pro | £23.00 |
| 1 Gb | £29.00 |
| 1 Gb Elite Pro | £38.00 |
| 2 Gb Elite Pro | £65.00 |
| 2 Gb Ultimate | £82.00 |
| 4Gb Elite Pro | £129.00 |
| 4 Gb Ultimate | £159.00 |

## SD cards

**SanDisk**

| | |
|---|---|
| 256 Mb | £15.00 |
| 512 Mb | £24.00 |
| 1 Gb | £39.00 |
| 512 Mb Ultra II | £29.00 |
| 1 Gb Ultra II | £49.00 |
| 2 Gb Ultra II | £149.00 |

**SanDisk gaming cards**

| | |
|---|---|
| 256 Mb | £15.00 |
| 512 Mb | £23.00 |
| 1Gb | £39.00 |

**Kingston**

| | |
|---|---|
| 512 Mb | £15.00 |
| 512 Mb Elite Pro | £23.00 |
| 1 Gb | £29.00 |
| 1Gb Elite pro | £43.00 |
| 2 Gb | £58.00 |
| 2 Gb Elite Pro | £65.00 |

## xD picture memory

**SanDisk**

| | |
|---|---|
| 256 Mb | £23.00 |
| 512 Mb | £39.00 |
| 1 Gb | £60.00 |

**Dane-Elec**

| | |
|---|---|
| 256 Mb | £23.00 |
| 512 Mb | £39.00 |
| 1 Gb | £60.00 |

**Olympus**

| | |
|---|---|
| 256 Mb | £29.00 |
| 512 Mb | £39.00 |
| 1 Gb | £63.00 |

**Fuji**

| | |
|---|---|
| 256 Mb | £19.00 |
| 512 Mb | £39.00 |
| 1 Gb | £59.00 |

## SanDisk memory stick cards

**Pro**

| | |
|---|---|
| 256 Mb | £19.00 |
| 512 Mb | £29.00 |
| 1 Gb | £43.00 |
| 2 Gb | £83.00 |

**Pro Duo**

| | |
|---|---|
| 256 Mb | £19.00 |
| 512 Mb | £29.00 |
| 1 Gb | £43.00 |

**Pro Duo gaming cards**

| | |
|---|---|
| 256 Mb | £19.00 |
| 512 Mb | £29.00 |
| 1 Gb | £43.00 |

Ask about 0% credit

## Buy now, pay later!

**BUY NOW**
**PAY NOTHING UNTIL JANUARY 2007**
**WITH V12 FINANCE**

SEE WWW.DIGITAL-CAMERAS.COM FOR MORE INFORMATION.

## Waterproof cases

| | |
|---|---|
| AW-DC10 (Ixus i & i5) | £129.00 |
| AW-DC30 (Ixus 40 & 50) | £129.00 |
| WP-DC30 (A75 & 85) | £129.00 |
| WP-DC40 (S60 & S70) | £129.00 |
| WP-DC50 (A95) | £129.00 |
| WP-DC60 (A510 & 520) | £129.00 |
| WP-DC70 (Ixus 700) | £129.00 |

Olympus cases

| | |
|---|---|
| CWPC-01 (Mju: Mini) | £59.00 |
| PT-030 | £172.00 |
| PT-032 | £129.90 |
| PT-033 | £134.50 |

## Manfrotto

| | |
|---|---|
| Monopod 679B | £29.00 |
| Monopod 680B | £40.00 |
| Monopod 682B | £65.00 |
| Monopod junior 676B | £24.00 |
| Tripod 055CLB | £110.00 |
| Tripod 055PROB | £129.00 |
| Tripod 190CLB | £89.00 |
| Tripod 190PROB | £102.00 |
| Tripod bag MBAG70 | £22.00 |
| Tripod bag MBAG80 | £29.00 |
| Carbon monopod 694MF4 | £89.00 |
| Carbon tripod 055MF3 | £219.00 |
| Carbon tripod 190MF3 | £199.00 |
| Digi table top 709B | £21.00 |

Latest deals and prices at www.digital-cameras.com

## Lowepro

| | |
|---|---|
| Rezo 10 case | £10.00 |
| Rezo 15 case | £12.00 |
| Rezo 30 case | £14.00 |
| Rezo 40 case | £15.00 |
| Rezo 50 case | £17.00 |
| Rezo 60 case | £19.00 |
| Rezo TLZ 10 case | £17.00 |
| Rezo TLZ 20 case | £19.00 |
| Topload Zoom 1 case black | £19.00 |
| Topload Zoom 2 case black | £25.00 |
| Topload Zoom AW black | £32.00 |
| D-Res 25 AW case | £13.00 |
| D-Res 40 AW case | £24.00 |
| Lowepro Photo Trekker AW II | £189.00 |
| Lowepro Slingshot 100 AW Bag | £42.90 |
| Lowepro Slingshot 200 AW bag | £49.90 |
| Lowepro Stealth AW II case | £149.00 |

## Canon printers & accessories

**Pixma**

| | |
|---|---|
| iP1600 | £41.00 |
| iP2200 | £46.00 |
| iP4200 | £73.00 |
| iP5200 | £79.90 |
| iP5200R | £110.00 |
| iP6220D | £79.00 |
| iP8500 | £202.00 |
| i9950 | £353.01 |
| iP6210D | £57.00 |

**Selphy**

| | |
|---|---|
| CP-510 | £63.00 |
| CP-600 | £133.00 |
| CP-710 | £92.00 |
| DS-810 | £93.00 |

**Ink & paper**

| | |
|---|---|
| KP-72IP | £17.00 |
| KP-36IP | £8.30 |
| KW-24IP | £10.00 |
| KP-108IP | £25.00 |

## Seagate External hard drives

| | |
|---|---|
| 2.5" USB 2.0 40 Gb | £93.00 |
| 2.5" USB 2.0 60 Gb | £99.00 |
| 2.5" USB 2.0 80 Gb | £109.00 |
| 2.5" USB 2.0 100 Gb | £129.00 |
| 2.5" USB 2.0 120 Gb | £149.00 |
| 2.5" USB 2.0 160 Gb | £219.00 |
| 3.5" USB 2.0 160 Gb | £109.00 |
| 3.5" USB 2.0 250 Gb | £119.00 |
| 3.5" USB 2.0 300 Gb | £149.00 |
| 3.5" USB 2.0 400 Gb | £239.00 |
| 3.5" USB VL 120 Gb | £79.00 |
| 3.5" USB VL 250 Gb | £99.00 |
| 3.5" USB/Firewire 200 Gb | £129.00 |
| 3.5" USB/Firewire 400 Gb | £239.00 |
| 3.5" USB/Firewire 500 Gb | £319.00 |
| Pocket drive USB 2.0 2.5 Gb | £65.00 |
| Pocket drive USB 2.0 5.0 Gb | £75.00 |

## Ansmann AA batteries & chargers

| | |
|---|---|
| 4x AA Ni-MH battery 2400 mAh | £10.00 |
| 4x AA Ni-MH battery 2600 mAh | £12.00 |
| 4x AA Ni-MH battery 2700 mAh | £13.00 |
| Battery belt pack set 2 plus | £45.00 |
| Digispeed 4 Ni-MH battery charger set | £35.00 |
| Digispeed 4 Ultra battery charger | £48.90 |
| Energy 16 battery charger | £69.00 |
| Energy 4 battery charger | £29.00 |
| Energy 8 battery charger | £39.00 |
| Photocam III battery charger | £16.50 |
| Photocam mobile battery charger | £25.00 |
| Universal power supply 1612 | £12.00 |

## Lenses

Sigma

| | |
|---|---|
| 10-20mm f/4-5.6 EX DC HSM | £332.00 |
| 12-24mm f4-5.6 EX DG | £443.00 |
| 17-35mm f/2.8-4.0 EX DG | £316.00 |
| 17-70mm f/2.8-4.5 DC MACRO | £249.00 |
| 18-50mm f/3.5-5.6 DC + 55-200mm f4-5.6 | £179.00 |

Tamron

| | |
|---|---|
| 17-35mm f/2.8-4 AF SP Di C A05 | £328.00 |
| 18-200mm f/3.5-6.3 AF XR Di II A14 | £269.00 |
| 200-500mm f/5-6.3 AF SP Di A08 | £699.00 |
| 28-200mm f/3.8-5.6 XR A03 | £199.00 |

Canon

| | |
|---|---|
| 55-200mm U f/4.5-5.6 USM II | £189.90 |
| 10-22mm EF-S USM f/3.5 - f/4.5 | £571.00 |
| 28-105mm f/4.0-5.6 USM | £169.00 |
| 70-300mm EF f/4-5.6 IS USM | £419.00 |

## The Digital Camera Company *5 point* customer satisfaction plan

1) FREE! Interest free credit
2) FREE! Technical support
3) Award-winning website
4) FREE! Internet printing
5) PLUS! Next day delivery
(UK mainland only, order before 3pm)

YEPG Proudly Presents, Thx for Support

# cameraWORLD.co.uk

more than just a website

WITH 3 EASY WAYS TO SHOP: on-line Phone Call in

Practical Photography Digital Photo Gear of the Year 2005

cameraWORLD WINNER OF SPECIALIST RETAILER OF THE YEAR 2005

## YOUR FAVOURITE DIGITAL SLR SPECIALISTS

### KONICA MINOLTA DiMAGE Z20 MEGA BUNDLE!

SCOOP!

- 5 Megapixel
- 8x Optical Zoom
- Dimage Z20
- Minola Case
- 512MB SD Card
- 4x Batteries & charger

The Konica Minolta DIMAGE Z20's 8x optical Mega Zoom lens and 4x digital zoom combine for a total 32x zoom, allowing users to capture everything from sporting events to panoramic scenery.

RRP £329.96 SAVE £130

NOW: £199.99

### Nikon D50 + 18-55mm DX

RRP £649.99 SAVE £222

NOW: £428.00

Nikon D50 & Nikon 18-55mm & Nikon 55-200mm lenses RRP: £ 849.98 SAVE: £ 399.99 £549.99
Hahnel HN-D50 Battery Grip for Nikon D50 with 2 Li-ion batteries £99.99
Giottos Rocket Air Blower £8.99

### Nikon D70S + 18-70mm DX

RRP £899.99 SAVE £200

NOW: £699.99

Nikon D70 Refurbished Body £399.99
Nikon D70s Body £579.99
Nikon ML-L3 remote control £18.99
Hahnel HN-D70 Battery Grip for Nikon D70/S with 2x Li-ion batteries £99.99
Lexar USB 2.0 Multi-Card Reader £24.99

### Nikon D200 + 18-70mm DX

RRP £1499.99 SAVE £100

NOW: £1399.99

D200 & Nikon 17-55mm f2.8G AF-S £1,099.99
Nikon D200 Body £1,099.00
Nikon MB-D200 battery pack £149.99
Nikon Capture 4 Software £199.99
MS-D200 AA battery holder £24.99

## Memory SCOOP! at prices you will not forget

### EPSON P-2000

RRP £349.99 SAVE £21

NOW: £328.99

P-4000 ..... £439.99

### SCOOP! OLYMPUS MJU-600 Red

With the Olympus Mju Digital 600, you'll get great results at any time of day. But there's more: thanks to the innovative BrightCapture Technology, the real fun starts at night.

RRP £249.99 SAVE £80

NOW: £169.99

### SCOOP! SONY DSC-W15

Large 2.5" LCD
Carl Zeiss® lens
3x Optical Zoom
5.1 Megapixel
4x AA Nickel Metal Hydride Batteries
Sony Leather Case
High Quality Aluminium Body in Matt Black

RRP £299.99 SAVE £120

NOW: £179.99

### NEW! Canon IXUS 60 COLLECTION KIT

- Ixus 60
- 1x Extra Canon Battery
- Leather Canon Case
- Delux Canon Leather Strap

RRP £329.99 SAVE £40

NOW: £289.99

### Kingston TECHNOLOGY

| | |
|---|---|
| 256Mb SD | £11.99 |
| 512Mb SD | £18.99 |
| 1Gb SD | £34.99 |
| 256Mb CF | £11.99 |
| 512Mb CF | £18.99 |
| 1Gb CF | £34.99 |
| 2GB 50x speed PRO CF | £79.99 |

### FUJIFILM

| | |
|---|---|
| 256Mb xD Picture Card | £13.99 |
| 512Mb xD Picture Card | £32.99 |
| 1Gb xD Picture Card | £54.99 |

### NEW! GIGA ONE NOW 40Gb!

The Jobo Giga ONE is the perfect back up solution for all photographers. With its 40GB capacity you can store thousands of images

RRP £119.99 SAVE £20

NOW: £99.99

### Lexar

NEW 133x Professional Range

133X read & write speeds are designed to speed up image capture times by taking advantage of a Digital SLR camera's high-speed processor.

| | |
|---|---|
| NEW! 1Gb 133x PRO CF | £59.99 |
| NEW! 2GB 133x PRO CF | £99.99 |
| NEW! 4GB 133x PRO CF | £189.99 |
| NEW! 1Gb 133x PRO SD | £59.99 |

### SanDisk

| | |
|---|---|
| 512Mb Ultra II CF | £34.99 |
| 1Gb Extreme III CF | £59.99 |
| 2Gb Extreme III CF | £99.99 |
| 4Gb Extreme III CF | £189.99 |
| 256Mb Memory Stick DUO PRO | £29.99 |
| 512Mb Memory Stick DUO PRO | £59.99 |
| 1Gb Memory Stick DUO PRO | £69.99 |

### SONY

| | |
|---|---|
| Memory Stick 1Gb Pro high Speed | £74.99 |
| Memory Stick 256Mb Pro High Speed | £29.99 |
| Memory Stick 512Mb Pro HS | £45.99 |
| Memory Stick 1Gb Pro High Speed DUO | £75.99 |
| Memory Stick 1Gb Pro DUO | £56.99 |
| Memory Stick 256Mb Pro High Speed DUO | £29.99 |
| Memory Stick 256Mb Pro DUO | £22.99 |
| Memory Stick 2Gb Pro High Speed DUO | £134.99 |
| Memory Stick 2Gb Pro DUO | £104.99 |
| Memory Stick 512Mb Pro High Speed DUO | £44.99 |
| Memory Stick 512Mb Pro DUO | £99.99 |

### Canon

| | |
|---|---|
| NEW! IXUS i Zoom IFT | £199.99 |
| PowerShot A620 | £209.99 |
| PowerShot S80 | £359.99 |

### PowerShot A540

RRP £229.99 SAVE £40

NOW: £189.99

| | |
|---|---|
| NEW! IXUS 60 | £229.99 |
| NEW! IXUS 65 | £269.99 |

### NEW! PowerShot S3 is

RRP £399.99 SAVE £100

NOW: £349.99

| | |
|---|---|
| NEW! IXUS 800 IS | £309.99 |
| NEW! PowerShot A430 Gold | £119.99 |
| NEW! PowerShot A430 Grey | £129.99 |
| NEW! PowerShot A530 | £149.99 |
| NEW! IXUS Wireless | £329.99 |

### SONY

| | |
|---|---|
| Cyber-Shot DSC-T9 | £279.99 |
| Cyber-Shot DSC-W50 | £PHONE |
| Cyber-Shot DSC-W30 | £PHONE |
| Cyber-Shot DSC-W70 Silver | £PHONE |
| Cyber-Shot DSC-W70 Black Special Edition | £PHONE |
| Cyber-Shot DSC-W100 | £PHONE |
| Cyber-Shot DSC-N1 | £319.99 |
| Cyber-Shot DSC-T30 | £319.99 |

### FUJIFILM

### FinePix S9500

FREE FUJI S9500 CASE!

RRP £549.99 SAVE £170

NOW: £379.99

| | |
|---|---|
| FinePix F30 | £PHONE |
| FinePix Z1 + Case & 2x 64Mb Xd | £299.99 |
| FinePix S7000 | £299.99 |

### FUJIFILM FinePix V10

RRP £329.99 SAVE £50

NOW: £279.99

### PENTAX

| | |
|---|---|
| NEW! Optio A10 | £PHONE |
| NEW! Optio E30 | £PHONE |

### Nikon

| | |
|---|---|
| Coolpix S4 | £279.99 |
| NEW! Coolpix P4 | £289.99 |
| NEW! Coolpix L2 | £149.99 |
| NEW! Coolpix P5 | £299.99 |
| NEW! Coolpix S5 | £259.99 |
| NEW! Coolpix L3 | £149.99 |
| NEW! Coolpix L4 | £309.99 |
| NEW! Coolpix S6 | £299.99 |

### Panasonic

| | |
|---|---|
| NEW! Lumix DMC-FZ7 (replaces FZ5) | £319.99 |
| NEW! Lumix DMC-FZ1 (10x Zoom) | £259.99 |

### Panasonic Lumix DMC-FZ30BB

RRP £449.99 SAVE £70

NOW: £379.99

| | |
|---|---|
| Lumix DMC-LX1BB | £349.99 |
| Lumix DMC-E1 | £PHONE |
| Lumix DMC-FX8EB | £199.99 |

### Panasonic Lumix DMC-FZ7

RRP £349.99 SAVE £30

NOW: £319.99

NEW! Lumix DMC-FX01 (replaces FX9) £259.99

### Panasonic Lumix DMC-LX1BB

RRP £449.99 SAVE £100

NOW: £349.99

### NEW! Nikon CoolPix P4

- 8.1 Megapixels
- 3.5x Optical Zoom
- Vibration Reduction

RRP £329.99 SAVE £40

NOW: £289.99

### HOYA

| | |
|---|---|
| UV O from | £7.99 |
| UV O SHMC PRO-1 from | £31.99 |
| Lens Protect Pro-1 Digital from | £22.99 |
| Circular Polarizing from | £22.99 |
| Circular Polarising SMHC PRO-1 from | £54.99 |
| PRO-1 Digital WIDE BAND CIRCULAR POLARISING from | £59.99 |

### GIOTTO Rocket Air Blower

Only £8.99

### MARUMI

New developed ultra-low reflection coating for digital camera does minimize flare and ghost

| | |
|---|---|
| DHG Lens Protect from | £15.99 |
| DHG Circular PL(D) from | £31.99 |
| DHG Soft Fantasy from | £31.99 |
| DHG Macro 5 from | £12.99 |

### Canon

| | |
|---|---|
| 100-400mm f4.5-5.6 L IS | £1,079.99 |
| 100mm f2.8 Macro USM | £388.00 |

### 100-400mm f4.5-5.6 L USM IS

RRP £1479.99 SAVE £400

NOW: £1079.99

| | |
|---|---|
| 10-22mm f3.5-4.5 USM | £379.99 |
| 17-40mm f4 L | £543.00 |
| 17-85mm F4-5.6 IS USM | £479.99 |

### 10-22mm f3.5-4.5 USM

RRP £599.99 SAVE £80

NOW: £519.99

| | |
|---|---|
| 28-135mm f3.5-5.6 USM IS | £333.00 |
| 28-300mm F3.5/5.6 L IS | £1,649.99 |
| 50mm f1.4 USM | £246.99 |
| 70-300 mm F4-F5.6 IS USM | £398.00 |

### 60mm f2.8 Macro USM EF-S

RRP £349.99 SAVE £69

NOW: £281.00

| | |
|---|---|
| 50mm f1.8 EFmark II | £72.99 |
| 55-200mm f/4.5-5.6 II USM EF | £199.99 |
| 60mm f2.8 Macro USM | £281.00 |
| 70-200mm f4 L USM | £478.00 |
| 70-300mm f/4.5-5.6 DO IS USM | £846.99 |
| 90-300mm f4.5-5.6 USM EF | £149.99 |

### Canon Lens Hoods

| | |
|---|---|
| ET-60 f/ 75-300's | £13.99 |
| ET-54 for 55-200 USM | £17.99 |
| EW-78D for 28-135 IS | £19.99 |
| EW-73-II for 24-85mm | £19.99 |

| | |
|---|---|
| EW-60C for 18-55 and 28-90mm | £15.99 |
| ES-62 w/Adapter 62 for EF 50/1.8 | £19.99 |
| ES-71-II for EF 50/1.4 USM | £39.99 |
| EW-75B for EF 17-85 | £22.99 |
| ET-67 for 100/2.8 USM Macro | £24.99 |
| ET-67B for the EFS 60mm f/2.8 USM | £25.99 |
| ET-64-2 for 75-300 I.S. | £27.99 |
| EW-63E for 16-35mm,17-40mm,10-22mm | £29.99 |
| ET-74 for 70-200mm NL | £34.99 |

### Nikon

| | |
|---|---|
| 10.5mm f/2.8 | £468.00 |
| 12-24mm f/4G ( AF-S DX | £728.00 |
| 17-55mm f/2.8D IF-AF-S | £1,149.00 |

### 28-200mm f/3.5-5.6G ED

Takes 1-2 bodies, 5-6 lenses, flash etc and 15" laptop. Thickly padded harness and 'QuickClip' based harness

RRP £299.99 SAVE £120

NOW: £179.99

| | |
|---|---|
| 17-55MM F2.8 G AF-S DX ZOOM | £988.00 |
| 18-55mm f/3.5-4 SD | £299.99 |
| 18-55mm f/3.5-5.6G ED UN-BOXED | £99.99 |
| 18-70mm AF-S DX f/3.5-4.5G | £199.99 |
| 24-120mm f/3.5-5.6 G ED AF-S VR | £419.99 |
| 24-85mm f/3.5-4.5 AF-S | £349.99 |
| 28-200mm f3.5-5.6 G series | £179.99 |
| 50mm f1.4 AFD | £216.00 |
| 50mm f1.8 AFD | £97.00 |
| 55-200mm f4.5-5.6 G DX | £149.99 |
| 60mm f/2.8D | £554.00 |

### 55-200mm AF-S DX f/4-5.6G ED

High powered standard DX zoom lens with enhanced telephoto capabilities and a Silent Wave Motor

RRP £199.99 SAVE £50

NOW: £149.99

| | |
|---|---|
| 70-300mm f/4-5.6ED | £264.00 |
| 70-300mm f/4-5.6G | £99.99 |
| 80-200mm f/2.8D AF-S | £1,299.99 |

### 70-300mm f/4-5.6G

RRP £179.99 SAVE £80

NOW: £99.99

| | |
|---|---|
| 80-400mm f4.5-5.6D VR | £1,028.00 |
| 85mm f/1.4D IF | £825.99 |
| 85mm f/1.8D | £328.00 |
| SB-600 Speedlite | £199.99 |
| SB-800 Speedlite | £279.99 |

YYePG Proudly Presents, Thx for Support

READERS OFFERS MENTION THIS ADVERTISEMENT TO RECEIVE THESE GREAT DEALS!

1000's OF ITEMS ON OUR WEBSITE ALL AT AMAZING PRICES!

ALWAYS LOW PRICES PLEASE PHONE OR VISIT OUR WEB SITE FOR EVEN MORE GREAT DEALS

# MAIL ORDER HOTLINE
# 0207 636 5005

Express mail delivery (insured courier service, usually next working day (orders before 2pm). E & O.E. Goods and delivery services subject to stock availability. Prices subject to change. All prices include VAT. Pictures are for illustration purposes only.


14 WELLS STREET
(JUST OFF OXFORD STREET),
LONDON W1T 3PB
■ T 0207 636 5005 ■ F 0207 636 5006
■ SALES@CAMERAWORLD.CO.UK

7 EXCHANGE WAY
HIGH CHELMER SHOPPING CENTRE
CHELMSFORD, ESSEX CM1 1XD
■ T 01245 255510 ■ F 01245 255512
■ CHELMER@CAMERAWORLD.CO.UK


## YOUR FAVOURITE DIGITAL SLR SPECIALISTS

### FUJIFILM S3 Pro BODY

FREE 2GB SANDISK EXTREME III CF CARD WORTH £100

RRP £1599.99 **SAVE £600**

**NOW: £999.99**

- Hahnel 2000MAH Charger & Batteries ..... £79.99
- Nikon AF 28-200 f/3.5-5.6G ..... £179.99
- Lexar USB 2.0 Multi-Card Reader ..... £24.99
- Giottos Rocket Air Blower ..... £8.99
- Hahnel 2500MAH NiMA Batteries ..... £34.99

### SONY DSC R1+

WITH SPARE SONY FM-50 BATTERY

RRP £749.98 **SAVE £200**

**NOW: £549.99**

- Sony RMD-R1 remote controller ..... £39.99
- Sony 1Gb Memory Stick ..... £49.99
- ILEX The Digital SLR Handbook ..... £24.95
- Giottos Rocket Air Blower ..... £8.99
- Sandisk 12 in 1 Card Reader ..... £24.99
- FM-50 Spare Battery ..... £33.99

### PENTAX IST DL + 18-55mm

RRP £649.99 **SAVE £200**

**NOW: £449.99**

- Marumi DHG Lens Protect 52mm ..... £36.99
- Hahnel 2000MAH Charger & Batteries ..... £79.99
- Hahnel 2500MAH NiMA Batteries ..... £34.99
- Tamrac Digital Zoom 3 Case ..... £24.99
- NEW! 1Gb 133x PRO SD ..... £59.99

### NEW! Canon EOS 30D Body

FREE 512MB CF CARD VIA CANON

RRP £1179.99 **SAVE £181**

**NOW: £999.00**

### Canon EOS 350D +18-55mm

FREE 256MB CF CARD VIA CANON

RRP £749.99 **SAVE £250**

**NOW: £499.99**

### Canon EOS 5D Body

FREE 512 MB CF CARD VIA CANON

RRP £2549.99 **SAVE £605**

**NOW: £1649.00***

* You pay £1849.99 and get £200 cashback via Canon

**Inc Cash Back Voucher book worth £840!**

| | | |
|---|---|---|
| 100-400mm f4.5-5.6 L IS | £1,079.99 | + £105 CASHBACK |
| 10-22mm f3.5-4.5 USM | £519.99 | + £70 CASHBACK |
| 17-40mm f4 L | £543.00 | + £70 CASHBACK |
| 70-300mm f/4.5-5.6 DO IS USM | £846.99 | + £70 CASHBACK |
| 60mm f2.8 Macro USM EF-S | £281.00 | + £35 CASHBACK |
| 70-300 mm F4-F5.6 IS USM | £398.00 | + £35 CASHBACK |
| MR14 EX Macrolite | £328.00 | + £35 CASHBACK |
| Speedlite 580EX | £288.99 | + £35 CASHBACK |

## tamrac

**TAMRAC is the world's leading brand for camera cases. They have built their reputation on superb quality and functional design with many unique innovations. All Tamrac bags come with a 5 Year Guarantee.**

### Adventure 6 Photo Backpack

Sleek, modern design that does not look like a camera bag. Medium SLR outfit in bottom. Rain gear, Thermos etc. in top.

RRP £54.99 **SAVE £5**

**NOW: £49.99**

Adventure 7 Backpack ..... £59.99

### Velocity 7

A unique, ultra-functional pack that carries like a backpack, but by swinging it around to the front provides quick access to most digital or film SLRs.

RRP £42.99 **SAVE £3**

**NOW: £39.99**

### Expedition 5 Photo Backpack

Popular, comfortable mid-sized backpack with "LockDown" rain flap to protect from the elements and "QuickClip" Tripod attachment.

RRP £99.99 **SAVE £25**

**NOW: £74.99**

| | |
|---|---|
| Expedition 3 Backpack | £54.99 |
| Expedition 4 Backpack | £64.99 |
| Expedition 5 Backpack | £74.99 |
| Expedition 7 Backpack | £119.99 |
| Expedition 8 Photo Backpack | £149.99 |
| CyberPack 6 Photo/Computer Backpack | £89.99 |
| CyberPack 8 Photo/Computer Backpack | £129.99 |
| CyberPack 9 Photo/Computer Backpack | £82.99 |
| CyberPack Express Rolling Photo Computer Backpack | £179.99 |
| CyberPro Express Rolling Briefcase | £159.99 |
| CyberPro Flyer Rolling Briefcase | £159.99 |
| Digital 6 Case | £19.99 |
| Digital Convertible | £34.99 |
| Digital Zoom 2 | £19.99 |
| Digital Zoom 5 | £24.99 |
| Digital Zoom 4 | £29.99 |
| Explorer 10 | £18.99 |
| Explorer 2 | £29.99 |
| MAS Rain Cover Large | |
| MAS Rain Cover Medium | £17.99 |
| Pro 12 | £99.99 |
| Pro 5 | £59.99 |
| Pro 8 | £59.99 |
| Pro Digital Zoom 7 | £34.99 |
| Pro Digital Zoom 9 | £39.99 |
| System 2 Camera Bag | £29.99 |
| System 3 Camera Bag | £39.99 |
| System 6 Camera Bag | £49.99 |
| Velocity 3 Messenger Camera Bag | £57.99 |
| Velocity 4 Micro Sling Pack | £31.99 |
| Velocity 5 Photo Hip Pack Convertible | £42.99 |
| Velocity 6 Compact Sling Pack | £26.99 |
| Velocity 7 Photo Sling Pack | £39.99 |
| Velocity 9 - Pro Sling Pack | £49.99 |

## SIGMA SPECIALIST CENTRE

**LENS HIRE NOW AVAILABLE CALL FOR DETAILS**

| | |
|---|---|
| 100-300mm f4 EX IF APO | £658.99 |
| 10-20mm f/4-5.6 EX DC HSM | £319.99 |
| 105mm F2.8 EX DG Macro | £278.99 |
| 120-300mm f2.8 EX IF HSM | £1,679.99 |
| 18-200mm f/3.5-6.3 DC | £249.99 |
| 18-50mm f2.8 EX DC | £299.99 |
| 18-50mm f3.5-5.6 DC | £79.99 |
| 20-40mm f2.8 EX DG ASPH | £399.99 |
| 20mm f1.8 EX DG Aspherical RF | £248.99 |
| 24-135mm f2.8-4.5 | £695.99 |
| 24-60mm f2.8 EX DG ASP | £269.99 |
| 24-70mm f2.8 EX DG Macro | £279.99 |
| 28-135mm f3.8-5.6 IF MACRO | £99.99 |
| 28-300mm f3.5-6.3 SLD DG | £369.99 |
| 28-70mm f2.8 EX DG | £214.99 |
| 300-800mm f/5.6 EX DG HSM | £4,458.00 |
| 300mm f/2.8 EX DG HSM | £1,649.99 |
| 30mm f/1.4 EX DC HSM | £283.99 |

### 10-20mm f/4-5.6 EX DC HSM

RRP £379.99 **SAVE £60**

**NOW: £319.99**

| | |
|---|---|
| 12-24mm f4.5-5.6 EX DG ASP | £435.00 |
| NEW! 135-400mm f4.5-5.6 ASP RF DG | £428.99 |
| 14mm f/2.8 EX ASP HSM | £553.99 |
| 150mm f2.8 EX DG MACRO | £458.99 |
| 15mm f/2.8 EX DIAGONAL FISHEYE | £309.99 |
| NEW! 170-500mm f5-6.3 ASP RF DG | £548.99 |
| 17-35mm F2.8-4 EX DG ASP HSM | £279.99 |
| 180mm f/3.5 EX DG HSM | £405.00 |
| 18-125mm f3.5-5.6 DC | £186.00 |

### 70-300mm f/4-5.6 APO DG MACRO

RRP £199.99 **SAVE £41**

**NOW: £158.99**

| | |
|---|---|
| 50mm f2.8 MACRO EX DG | £194.99 |
| 500mm f/4.5 EX DG HSM | £2,699.99 |
| 50-500mm f4-6.3 EX RF APO DG | £718.99 |
| 55-200mm f4-5.6 DC | £106.99 |
| 70-200mm f/2.8 EX DG HSM | £596.00 |
| 70-300mm f/4-5.6 APO DG MACRO | £158.99 |
| 70-300mm f/4-5.6 DG MACRO | £98.99 |
| 1.4X EX Converter | £158.99 |
| 2x EX Converter | £168.99 |
| 80-400mm APO f4.5-5.6 EX DG | £829.99 |
| 8mm f/4 EX CIRCULAR FISHEYE | £499.99 |

### 17-70mm f/2.8-4.5 DC Macro

RRP £269.99 **SAVE £61**

**NOW: £238.99**

## EPSON Stylus Photo R-2400

Superior black & white and colour photo printing. Professional photographic printing up to A3.

RRP £599.99 **SAVE £80**

**NOW: £519.99**

| | |
|---|---|
| Stylus Photo RX700 | £269.99 |
| Stylus Photo RX620 | £149.99 |
| Stylus Photo RX520 | £129.99 |
| Stylus Photo R340 | £119.99 |
| Stylus Photo R2400 | £519.99 |
| Stylus Photo R240 | £84.99 |

## EPSON Stylus Photo R-240

Making home photo printing effortless

RRP £99.99 **SAVE £15**

**NOW: £84.99**

| | |
|---|---|
| Stylus Photo R220 | £64.99 |
| Stylus Photo R1800 | £358.99 |
| Stylus Photo 1290S A3+ Printer | £279.99 |
| Perfection V700 Photo Scanner | £379.99 |
| Perfection 4990 Photo Scanner | £319.99 |
| Perfection 4490 Photo Scanner | £179.99 |
| Perfection 3590 Photo Scanner | £89.99 |
| Perfection 3490 Photo Scanner | £69.99 |

## Manfrotto 055 MF3 & 460MG Ball Head

will provide professional photographers a tripod that is very light, compact, simple to use, yet high quality, strong and extremely versatile to position.

RRP £305.99 **SAVE £55**

**NOW: £249.99**

| | |
|---|---|
| 055MF4 & 460MC 3 Way Head | £279.99 |
| 055MF5 & 460MC 3 Way Head | £269.99 |
| 055MF5 & 322RC2 Grip Action Head | £299.99 |
| 055PROB & 322RC2 Grip Action Head | £179.99 |
| 055PROB & 141RC2 3 Way Head | £149.99 |
| 190MF3 & 460MC 3 Way Head | £219.99 |
| 190MF4 & 460MC 3 Way Head | £209.99 |
| 190ME3 & 322RC2 Grip Action Head | £289.99 |
| 190PROB & 486RC2 Ball Head | £129.99 |
| 190PROB & 141 RC 3 Way Head | £129.99 |
| 728B Digi tripod with 3 Way Head | £79.99 |
| 724B Digi tripod with ball head | £79.99 |
| 718B Digi tripod with 3 Way Head | £64.99 |
| 718SHB Short Digi tripod + 3 Way Head | £59.99 |
| 715 SHB Short Digi tripod + 3 Way Head | £64.99 |
| 715 BDigi tripod with 3 Way Head | £69.99 |
| 725 | £79.99 |
| 694 Carbon Monopod, 4 section | £99.99 |
| 695 Carbon Monopod, 5 section | £109.99 |
| 608B Monopod | £42.99 |
| 679B Monopod | £32.99 |
| 322 RC2 Grip Action Ball Head | £79.99 |

LOTS MORE Manfrotto ITEMS ON OUR WEBSITE

## TAMRON THE MACRO SPECIALISTS

| | |
|---|---|
| 11-18MM F/4.5-5.6 Di-II LD SP | £367.99 |
| 17-35mm (2.8-4D) | £327.99 |
| 18-200mm F/3.5-6.3 XR Di-II | £267.99 |
| 28-300mm F/3.5-6.3 XR Di LD ASP | £208.99 |
| 28-75mm F/2.8 XR Di SP LD | £249.99 |
| 55-200mm F/4-5.6 Di II LD MACRO | £108.99 |
| 70-300mm f4-5.6 LD MACRO | £99.99 |

### 200-500mm Di F5-6.3 AF SP LD

RRP £829.99 **SAVE £161**

**NOW: £668.99**

### 90mm Di SP f/2.8 Macro

lens is particularly useful as a portrait macro lens that can be used conveniently as a telephoto macro lens for digital photography.

RRP £369.99 **SAVE £90**

**NOW: £279.99**

### 180mm SP F/3.5 Di LD MACRO

gives the user a longer working distance needed even in macro photography.

RRP £739.99 **SAVE £190**

**NOW: £549.99**

## NEW! EPSON Perfection V700 Photo Scanner

RRP £399.99 **SAVE £20**

**NOW: £379.99**

| | |
|---|---|
| F-5200 Film Scanner | £399.99 |
| PictureMate 500 | £134.99 |
| PictureMate 100 | £79.99 |

## CRUMPLER NEW! Shrinkle Special with tripod case

RRP £159.99 **SAVE £30**

**NOW: £129.99**

| | |
|---|---|
| Farmers Double Special Edition | £309.99 |
| Brian's Hot Tub | £139.99 |
| Shrinkle | £99.99 |
| Puppet | £99.99 |
| The Champ | £109.99 |
| Farmers Double | £99.99 |
| Formal Lounge | £79.99 |
| Bunny Man | £69.99 |
| Long Schlong | £59.99 |
| Stunner | £47.99 |
| Lollypop | £29.99 |
| Ben's Pizza XXXL | £54.99 |
| Ben's Pizza XXL | £47.99 |
| Ben's Pizza XL | £34.99 |
| Ben's Pizza L | £29.99 |

## Lowepro

### Slingshot 200 AW

Perfect for photojournalists, the SlingShot 200 AW™ uses a unique sling design to go from "carry mode" to "ready made" in seconds.

RRP £69.99 **SAVE £10**

**NOW: £59.99**

### Computrekker AW

The perfect travel companion for photojournalists and location photographers who need a compact way to safely store and transport digital cameras, accessories and a notebook computer.

RRP £129.99 **SAVE £40**

**NOW: £89.99**

| | |
|---|---|
| DryZone DZ200 | £79.99 |
| Dryzone DZ100 | £129.99 |
| Orion Trekker 11 | £39.99 |
| Orion Mini | £24.99 |
| Orion AW | £94.99 |
| Orion | £29.99 |
| Toploader 75 AW | £58.99 |
| Toploader 70 AW | £48.99 |
| Toploader 65 AW | £34.99 |
| Trekker Day Pack II | £29.99 |
| Rolling Mini Trekker AW | £139.99 |
| Rolling CompuTrekker Plus AW | £249.99 |
| Pro Trekker AW - II | £169.99 |
| Photo Trekker Classic | £94.99 |
| Photo Trekker AW 11 | £154.99 |
| Orion Trekker 11 | £59.99 |
| Omni Trekker | £89.99 |
| Nature Trekker AW- II | £129.99 |
| Mini Trekker Classic | £59.99 |
| Mini Trekker AW | £64.99 |
| Micro Trekker 200 | £49.99 |
| Micro Trekker 100 | £44.99 |
| Lens Trekker 600 AW | £119.99 |
| CompuTrekker Plus AW | £139.99 |
| Computrekker AW | £89.99 |
| DryZone Rover | £159.99 |
| Commercial AW MF | £109.99 |
| Commercial AW DV | £159.99 |
| Commercial AW | £134.99 |
| Magnum AW MF | £109.99 |
| Magnum AW | £108.99 |
| Compact AW DV | £89.99 |
| Compact AW | £89.99 |
| Stealth Reporter D650 AW | £119.99 |
| Stealth Reporter D550 AW | £99.99 |
| Stealth Reporter D400 AW | £89.99 |
| Stealth Reporter D300 AW | £79.99 |
| Stealth Reporter D200 AW | £69.99 |
| Stealth Reporter D100 AW | £59.99 |

## NEW! eFilm Professional Pop Up Shade

This will attach to your camera using the existing eye piece and slots around your camera's screen. Buttons on the Professional shade are aligned with your camera, to reduce the wear and tear on delicate parts and components. Color & design matches your camera model. Fitments for most popular D-SLRs.

only **£34.99**

## Canon CanoScan 9950F

RRP £349.99 **SAVE £80**

**NOW: £269.99**

## ZIGVIEW Zigview R Digital Viewfinder/Interval Shutter

the world's first TTL Motion Sensor shutter release, Interval & Exposure Timer.

FULL SPEC ON WEB

RRP £199.99 **SAVE £10**

**NOW: £189.99**

## Kenko

Available for Nikon/Canon/Pentax/Konica-Minolta

### Kenko 1.4x Teleplus Pro 300 DG

RRP £164.99 **SAVE £25**

**NOW: £139.99**

| | |
|---|---|
| NEW 2x MC-7 DG Converter | £99.99 |
| NEW Kenko MC7 1.5X Converter DG | £79.99 |
| NEW Kenko 2x Teleplus Pro 300 DG | £149.99 |

## SLIK Slik Able 300 Tripod with AF1100 trigger ballhead

**EXCLUSIVE!**

The amazing Slik AF1100 is the world's most popular trigger style ball head action that could transform your photography. Teamed with the Slik Able 300 metal tripod it's the perfect multi-position combination at only

RRP £159.98 **SAVE £60**

**NOW: £99.99**

MANY MORE CRUMPLER BAGS ON OUR WEBSITE

## Billingham Hadley Pro

Khaki or Black

RRP £129.99 **SAVE £40**

**NOW: £89.99**


YPePG Proudly Presents, Thx for Support

DIGITAL FIRST

Over the phone: Freephone 0800 043 3344

Online: www.digitalfirst.co.uk

From our well stocked showroom

We welcome visitors to our showroom on the A40 West of West Wycombe & free parking.

Offices & Showroom: Unit 12, North's Estate, Piddington, High Wycombe, Bucks, HP14 3BE
Opening Hrs: Mon to Fri 9am – 6pm, Sat 9am – 1pm. Map available on www.digitalfirst.co.uk.

## SLR CAMERAS

FREE SHIPPING

### Canon

- Eos 350D BODY ..... £469.99
- Eos 350D/18-55 ..... £519.99
- **Eos 350D** Twin Kit* **£699.99**
  *Canon 18-55 / 55-200 / BG-E3 Grip
- **Eos 5D BODY £1599.99**
- Eos 5D/24-105IS KIT ..... £2239.99
  Incl £200 Canon Cashback til 30. 6. 06
- **Eos 20D** BODY ....**£749.99**
- **Eos 20D** 18-55 ..**£799.99**
- **Eos 20D** 17-85IS **£1099.99**
- **Eos 30D** BODY ..**£949.99**
- **Eos 30D** 17-85IS **£1249.99**

### Nikon

- D2X Body ..... £3099.99
- D200 Body ..... £1199.99
- **D70s** Body ..... **£579.99**
- **D70s** 18/70 Kit .....**£749.99**
- D70s 28/80 Kit ..... £649.99
- **D50** Body .....**£349.99**
- **D50** 18/55 Kit .....**£429.99**
- **D50** 18/70 Kit .....**£559.99**
- **D50** 18/55-55/200 ....**£559.99**

### Konica Minolta Specials

- **Dynax 7D** Body ..**£569.99**
- **Dynax 7D** 17/35....**£679.99**
- **Dynax 5D** 18/70....**£439.99**

### Olympus

- **E-1** 14-45 .....**£449.99**
- **E-330** 14-45 NEW....**£699.99**
- **E-500** .....**£549.99**
- **E-500** Twin lens ....**£599.99**
- MF-1 OM Lens Adapter ..... £99.99

### Fuji

S3 Pro..... £849.99

### Pentax

- *ist DL /18-55 ..... £549.99

## SLR LENSES

### Canon

EF USM 100 Macro f2.8 ..... £389.99
EF USM 60 Macro f2.8 ..... £279.99
EF-S USM 10/22 f3.5/4.5 ..... £519.99
EF-L USM 16/35 f2.8 ..... £999.99
EF-L USM 17/40 f4 ..... £549.99
EF-S 18-55 f3.5/4.5..... £99.99
EF- L USM 24/70 f2.8 ..... £938.99
EF-S USM 17/85 IS f4.5/5.6 ..... £439.99
EF USM 20/35 f2.8 ..... £289.99
EF USM 24/85 f3.5/4.5 ..... £244.99
EF 28/105 f4/5.6 ..... £129.99
EF USM 28/105 f4/5.6 ..... £159.99
EF USM 28/105 f3.5/4.5 MK2 ..... £184.99
EF USM 28/135 f3.5/5.6 IS ..... £334.99
EF USM f4L 24-105mm IS ..... £695.95
EF USM 70/200L f4..... £485.99
EF USM 70-200 f2.8 ..... £899.99
EF USM 70-200IS f2.8 ..... £1299.99
EF USM 28/200 f3.5 ..... £329.99
EF USM 55/200 f4.5/5.6 II ..... £189.99
EF USM 75/300 DO IS f4/5.6..... £844..99
EF USM 70/300IS f4/5.6 ..... £399.99
EF USM 75/300 III f4/5.6 ..... £184.99
EF DC 75/300 f4/5.6 ..... £159.99
EF USM 90/300 f4/5.6..... £179.99
EF USM 100/400f4.5-5.6L IS..... £1,149.99
EF USM f3.5-5.6L 28-300mm ..... £1,639.95

### Canon Lenshoods

ET54 £19.99 • ET60 £22.99 • ET64II £29.99
ET65B £27.99 • ET67 £26.99 • ET67B £27.99
ET83C £24.99 • ET60B £9.99 • ET60C £22.99
EW60II £19.99 • EW63II £19.99 • EW73B £21.99
EW75II £29.99 • EW78BII £24.99 • EW78D £19
EW83E £26.99 • EW83F £24.99 • EW83II £19.99

### Nikon

AFS-DX 12-24 f4G ..... £669.99
AF-S DX 18-70 f/3.5-4.5G..... £229.99
AF-S DX 18-55 f/3.5-6 ..... £129.99
AF-S DX 55-200 f/4.5-4.5.6 ED ..£159.99
AF-S DX 17-55 f2.8 IF EF..... £969.99
AF-S DX 18-200 f/3.5-5.6 ..... £489.99
AF-S 18-35 f3.5/4.5 IF ED ..... £299.99
AF-S 24-85 f3.5 G IF ..... £229.99
AF-G 70-300 f4/5.6 ..... £84.99
AF-G 28-80 f3.3/5.6 ..... £79.99

### Minolta

17/35 2.8D..... £189.99
28/75 2.8D..... £299.99
11/18 4.5/5.6 DT ..... £409.99
18/200 3.5/6.3 DT ..... £334.99
28-100 mm F3.5 - 5.6 ..... £89.99
18-70 mm F3.5 - 5.6 ..... £129.99

### Sigma

Canon, Nikon & Minolta

- 105 f2.8 DG Macro ..... £299.99
- 150 f2.8 DG Macro ..... £439.99
- 10-20 f4.5/5.6 DC ..... £339.99
- 12-24 f4.5/5.6 ..... £449.99
- 15-30 f3.5/4.5 ..... £399.99
- 17-35 f2.8/4 DG ..... £329.99
- 24-70 f2.8 DG ..... £279.99
- 24-70 f2.8 DG Macro ..... £299.99
- 28-70 f2.8 DG ..... £229.99
- 18-50 f3.5/5.6 DC ..... £79.99
- 18-50 f2.8 EX DC ..... £319.99
- 18-125 f3.5/5.6 DC ..... £199.99
- 18-200 f3.5/6.3 DC ..... £269.99
- 24-60 f2.8 DG ..... £299.99
- 20-40 f2.8 ..... £378.99
- 24-135 f2.8/4 Minolta only 1£229 £240.99
- 28-105 f2.8/4 Nikon only 1 ..£139 £150.99
- 28-200 f3.5/5.6 ..... £159.99
- 28-300 f3.5/6.3 DG Macro ..... £189.99
- 55-200 f4-5.6 DC ..... £107.99
- 70-200 f2.8 APO EX DG..... £629.99
- 70-300 f4/5.6 APO ..... £158.99
- 70-300 f4.5/6.3 DL ..... £99.99
- 80-400 f4.5/5.6 OS DG..... £849.99
- 170-500 f5/6.3..... £444.99
- 18-50/55-200DC Twin Kit ..... £169.99

1.4x DG Teleconverter ..... £139.99
2 x DG Teleconverter ..... £179.99

### Tamron

Canon, Nikon & Minolta

- 90 Macro f2.8 ..... £249.99
- 90 Macro Di f2.8 ..... £299.99
- 180 f3.5Di ..... £529.99
- 18-200 f3.5/6.3 DI-II ..... £279.99
- 17-35 f2.8/4..... £329.99
- 19-35 f3.5/4.5 ..... £179.99
- 28-200 f3.8/5.6 ..... £159.99
- 28-300 f3.5/6.3 Di ..... £229.99
- 28-75 f2.8 ..... £269.99
- 70-300 f4.5/5.6 ..... £99.99
- 200-500 f5.6/6.3 Di ..... £779.99

### Canon Accessories

BG-E2 Grip for 20D..... £129.99
BG-ED3 Grip for D60/10D..... £119.99
BG-E1 Grip for 300D..... £119.99
BG-E3 Grip for D350D ..... £109.99
BG-E4 Grip for 5D..... £169.99
Speedlite 580EX ..... £299.99
Speedlite 430EX ..... £179.99
Speedlite 220EX ..... £129.99
EH17-L Case EOS20D ..... £34.99
EH18-LCase EOS350D ..... £34.99
ACK-E2 for 10D/20D/D30/D60 ..... £59.99
ACK-700 for 350D..... £44.99
BP511A Battery ..... £49.49

### Nikon Accessories

CF-D70 Case ..... £32.99
CF-D50 Case ..... £32.99
ML-L3 Remote Control ..... £14.99
SB-22S Flashgun ..... £139.99
SB-600 Flashgun ..... £169.99
SB-800 Flashgun ..... £289.99
MD-D200 Grip..... £149.99

### Konica Minolta Accessories

NP-700 Battery ..... £29.99
NP-200 Battery ..... £29.99
NP-800 Battery ..... £39.99
NP-900 Battery ..... £24.99
AC-11 Mains Adaptor ..... £49.99
RS-1000L Remote Cable ..... £54.99
RC-1000S Remote Cable ..... £34.99
VC-D7 Vertical Grip..... £139.99
CS-70 Case..... £49.00
Flashgun 3600HS(D) ..... £149.99
Flashgun 5600HS(D) ..... £269.99
Flashgun 2500(D)..... £99.99

## COMPACT CAMERAS

FREE SHIPPING

### Canon

- Powershot A410 ..... £99.95
- Powershot A430 ..... £119.95
- Powershot A520 ..... £137.95
- *with Selphy 510 Printer*..... £209.99
- Powershot A530 ..... £156.95
- Powershot A540 ..... £194.95
- Powershot A610 ..... £169.95
- Powershot A620 ..... £239.95
- Powershot S60 ..... £259.99
- Powershot S80 ..... £339.68
- Powershot S2 IS..... £289.99
- Ixus iZoom ..... £179.99
- Ixus 50 ..... £189.99
- Ixus 55 ..... £199.99
- Ixus 60 ..... £224.99
- Ixus 65 ..... £259.99
- Ixus 750 ..... £279.99
- Ixus 800i ..... £309.99
- Ixus Wireless ..... £299.99

### Fuji

- **A400** ..... **£104.99**
- **A500** ..... **£119.99**
- **F470** ..... **£184.99**
- **V10** ..... **£229.99**
- **E900** ..... **£269.99**
- **F11** ..... **£239.99**
- **S5600** ..... **£224.99**
- **S9500** ..... **£399.99**

### Konica Minolta

- **Z6** ..... **£219.99**
- **Z10** ..... **£147.99**

### Nikon

- S1 ..... £199.99
- S2 ..... £229.99
- S3 ..... £249.99
- S4 ..... £259.99
- S5 ..... £269.99
- P2 ..... £199.99
- 4600 ..... £119.95
- 5600 ..... £139.95
- 7600 ..... £179.95
- 7900 ..... £229.95
- 8400 ..... £389.95

### Olympus

Two Years Warranty

- C460 GWO ..... £84.99
- FE110 ..... £79.95
- FE115 ..... £99.95
- FE130 ..... £119.95
- FE140 ..... £129.95
- FE150 ..... £119.95
- MJU500 ..... £159.9
- C60 GWO ..... £149.99
- MJU500 GWO ..... £139.95
- MJU600 ..... £179.95
- MJU700 (New) ..... £189.95
- MJU720 (New) ..... £239.95
- MJU800 ..... £199.95
- MJU810 (New) ..... £259.95
- MJU Mini S Black ..... £129.95
- IR300 ..... £203.95
- SP320 ..... £209.95
- SP350 ..... £209.95
- SP500 ..... £209.95

GWO= Good Working Order-:Reps Samples, Show Stock etc Fully serviced and Guaranteed.

### Panasonic

- FZ30 ..... £459.99
- FZ5 ..... £239.99
- FZ7 ..... £299.99
- LZ5 ..... £214.99

### Pentax

- Optio S60 ..... £169.99
- Optio S6 ..... £219.99
- Optio WPi..... £189.99
- Optio A10 (New) ..... £phone
- Optio E10 (New) ..... £phone

### Samsung

- Pro 815..... £459.99

### Sony

- S600 ..... £149.99
- W5 ..... £169.95
- W15 Black, Case ..... £179.9
- P200 Silver ..... £209.9
- P200 Black ..... £219.99
- W7 ..... £209.95
- W17 Black Case 256mb ....£219.95
- T5 Black or Silver ..... £214.95
- T7 Black or Silver ..... £259.95
- H1 ..... £269.95
- T9 Black or Silver ..... £279.95
- N1 ..... £309.95
- M2 ..... £319.95
- R1 ..... £554.95

Sony Batteries

BG1 ..... £32.99
FE1 ..... £44.99
FM50..... £54.99
FR1 ..... £44.99
FT1 ..... £42.99

### COMPACT ACCESSORIES

#### Canon

Batteries & AC Adaptors

NB-1L Battery for Ixus..... £34.99
NB-4L Battery for Ixus 40/50..... £29.99
NB-2/3L Battery for Powershot ..... £39.99
NB-5H Battery for S10/S20..... £29.99
BP-511 Battery for D60/10D/G5..... £49.99
ACK500/600/700 ..... £44.99
ACK-900..... £29.99
ACK-E2..... £59.99

#### Lenses & Accessories

WC-DC58 Wide G1/2 ..... £99.99
WC-DC58N Wide G3/5 ..... £99.99
TC-DC58 Tele G1/2 ..... £69.99
TC-DC58N Tele G3/5 ..... £69.99
LA-DC58 Lens Adapt. G1/2 ..... £14.99
LA-DC58B Lens Adapt. G3/5 ..... £14.99
TC-DC52 Tele A1/2/3/40/70 ..... £79.99
TC-DC52A Tele A80 ..... £69.99
TC-DC58A Tele Pro-1 ..... £149.99
WC-DC52 Wide A1/2/3/40/70/80 ..... £69.99
LA-DC52B Lens Adapt. A30/40 ..... £12.99
LA-DC52 Lens Adapt. A10/20..... £12.99
LA-DC52C Lens Adapt. A70 ..... £14.99
LA-DC52D Lens Adapt. A80 ..... £14.99
LA-DC58B Lens Adapt. Pro-1 ..... £14.99
LA-DC58C Lens Adapt. Pro-1..... £34.99
LA-DC58D Lens Adapt. Pro-1..... £24.99
LA-DC10 Lens Adapt+ S1 IS ..... £24.99
WP-DC10 u/water for Ixus 2 £130.99 £99

#### Fuji

Batteries & AC Adaptors

AC Mains Adaptor 3 or 5V ..... £29.99
NP100 Battery ..... £29.99
NP80 Battery ..... £42.99 £29
NP60 Battery..... £34.99
NP40 Battery..... £34.99
NP30 Battery ..... £34.99
BC80 Charger ..... £54.99
BC60 Charger ..... £49.99

#### Minolta

Batteries & AC Adaptors

NP-400 Battery ..... £49.99
NP-700 Battery ..... £29.99
NP-800 Battery ..... £39.99
NP-900 Battery ..... £19.99
BP-400 Battery Grip for A1/2..... £99.99 £50
Lithium Batteries F100/200/300 ..... £19.99
Lithium Battery Dimage X ..... £29.99
AC-2L Mains Adaptor ..... £59.99
AC-11 Mains Adaptor ..... £49.99
External Battery Kit EBP-100 ..... £189.99

#### Accessories

RS-1000L Remote Cable ..... £54.99
RC-1000S Remote Cable ..... £34.99
RC-3IR Remote Control ..... £19.99

#### Lenses

ZCW100 WA ..... £69.99
ZCW200 WA ..... £69.99
ZCW300 WA ..... £79.99
ACW100 WA ..... £139.99
ACT100 WA ..... £139.99

#### Flashguns

Flashgun 3600HS(D) ..... £139.99
Flashgun 5600HS(D) ..... £259.99
Flashgun 2500(D) ..... £99.99

#### Nikon

Accessories

SC-17TTL Sensor Cable ..... £59.99
Multi Flash Bracket SK-E900 ..... £60.99 £39
Multi Flash Adaptor ..... £29
MC-EU1 Remote Control ..... £79.99
Slide Copier ES-E28 ..... £79.99
MB-E5700 Grip..... £110.99 £99

Batteries & AC Adaptors

EN-MH1-B2 ..... £9.99
EN-EL1..... £34.99
EN-EL2..... £39.99
EN-EL7..... £39.99
EN-4..... £89.99
EH-30 ..... £49.99 £29
EH-31/EH21 ..... £49.99 £29
EH53AC ..... £29.99
MH-16 Quick Charger ..... £199.99

Lenses & Accessories

URE 2 - 12 Lens Rings ..... each £9.99
Wideangle WC-E24 ..... £69.99
Wideangle WC-E63 ..... £99.99 £79
Wideangle WC-E68 ..... £119.99
Wideangle WC-E80 ..... £129.99
Fisheye FC-E8 ..... £299.99 £149
Telephoto TC-E15ED ..... £129.99 £99
Telephoto TC-E2 ..... £99.99 £69.99
Telephoto TC-E3ED ..... £219.99 £179
HR-E5700 Lenshood..... £19.99
HN-CP10 Lenshood for 5400 ..... £19.99

#### Olympus

Batteries & AC Adaptors

AC Mains Adaptor C-6/7AG ..... £49.99
PS-BLM1 ..... £69.99
LB-01E ..... £9.99
Li-12B ..... £19.99
Li-30B ..... £29.99

Accessories

RM-CB1 Remote Control ..... £54.99
RM-1 Remote Control ..... £19.99
Aqua Housing PFL-02 (FL20)..... £159.99
Aqua Housing PT-02 (C800)..... £39.99
Aqua Housing PT-014 (C50)..... £129.99
Aqua Housing PT-017 (C350)..... £89.99
Aqua Housing PT-019 (5000)..... £159.99
Aqua Housing PT-020 (5060)..... £159.99
Aqua Housing PT-021 (C360/460)..... £119.99
Aqua Housing PT-022 (C765/770)..... £159.99
Aqua Housing PT-023 (C8080) ..... £189.99
Aqua Housing PT-024 (C765/770)..... £139.99
Aqua Housing PT-022 (C765/770)..... £159.99
Aqua Housing PT-026 (MJU500)..... £139.99
Aqua Housing PT-027 (C7070) ..... £159.99
Aqua Housing PT-032 (MJU700) ..... £139.99
Housing CW-PC01 for MJU Mini/S..... £29.99

Flash

External Flash FL50 ..... £259.99
External Flash FL20 ..... £99.99

Lenses & Accessories

TCON14 Telephoto 1.4x ..... £49.99 £29
TCON17 Telephoto 1.7x ..... £89
TCON17C Telephoto 1.7x..... £109
WCON 07 Wide 07x ..... £129.99
WCON 07C Wide 07x..... £149.99
MCON 40 Macro ..... £68.99
CLA-7 Adaptor..... £34.99
CLA-6 Adaptor..... £29.99
CLA-4/5 Adaptor ..... £19.99
WCON-08B 28mm lens ..... £169.99

#### Sigma Flashguns

Canon or Nikon

- EF500 Super DG TTL..... £149.99
- EF500 ST DG TTL ..... £99.99
- EM 140 DG Ring Flash Macro ..£269.99

## Neg & Slide Scanners

### MINOLTA

- **Scan** Multi II (Medium Format) ..... **£499.99**
- AD-10 APS Adaptor ..... £89.99

### NIKON

- **Coolscan V** ..... **£449.99**
- **Coolscan 5000** ..... **£779.99**
- **Coolscan 9000**..... **£2199.99**

### REFLECTA

- **iScan 3600** ..... **£99.99**
- **Crystalscan 4000** ..... **£149.99**
- **Crystalscan 7200** ..... **£179.99**
- **ProScan 4000**..... **£299.99**
- **RPS 3600 Pro** ..... **£299.99**
- **RPS 7200 Pro** ..... **£359.99**
- **DigitDia 4000** ..... **£579.99**

## Flatbed Scanners

### CANON

- **4200F** ..... **£69.99**
- **8400F** ..... **£139.99**

**Canon 30D 17-85IS**
**£1,249.99**
Body £949.99
**Free Delivery**

**Olympus E-500** 14-45
**£549.99**
**Twin Zoom Kit £599.99**
**Free Shipping**

**Epson Pixma 6600D**
New stand Alone A4 Photo Printer
**£149.99**

**Minolta 7D**
Body Only **£569.99**
**Body/lens Kit 17-35 £679.99**
**Free Shipping**

YYePG Proudly Presents, Thx for Support

**Canon 20D**
Lens Kit 18/55
**£799.99**
Body only **£749.99**

**Samsung Pro 815**
**£459.99**
Free Shipping

**Canon 350D**
Lens Kit 18/55 **£519.99**
Body only **£469.99**
Free Shipping

**Nikon D50** 18/55 Zoom
**£429.99**
Body **£349.99**
Free Shipping

- 9900F ..... £249.99
- 9950F ..... £279.99
- LiDE 500F ..... £109.99

### EPSON
Perfection

- 3490 Photo ..... £79.99
- 3590 Photo ..... £109.99
- 4490 Photo ..... £189.99
- 4990 Photo ..... £349.99

### MICROTEK
ScanMaker

- 6800 Plus ..... £90
- i700 ..... £289.99
- i900 ..... £569.99

## Printers

### CANON

- Photo i9950 ..... £379.99
- Pixma IP4200 ..... £79.99
- Pixma IP5200 ..... £109.99
- Pixma IP5200R ..... £139.99
- Pixma IP6600D ..... £149.99
- Pixma IP6220D ..... £89.99
- Pixma IP6210D ..... £59.99
- Pixma IP8500 ..... £229.99
- i6500 ..... £279.99
- Pixma IP90 ..... £184.99
- DS700 ..... £99.99

### EPSON

- PictureMate 500 ..... £139.99
- Photo R220 ..... £64.99
- Photo R240 ..... £94.99
- Photo R320 ..... £129.99
- Photo R340 ..... £139.99
- Photo R800 ..... £218.99
- Photo R1800 ..... £359.99
- Photo R2400 ..... £539.99

## Dye Sub Printers

### CANON

- SELPHY CP510 ..... £79.99
  *with Ixus 50 Camera* ..... *£259.99*
  *with PS A520 Camera* ..... *£209.99*
- SELPHY CP710 ..... £99.99

KP-36IP Paper ..... £11.99
KP-118IP Paper ..... £27.99

### FUJI

Printpix CX400 ..... £299.99
RK-SD40 40 x 6/4 Paper Roll ..... £13.99

### HI-TOUCH

- 641PS ..... £179.99

50 sheets of 4x6 ..... £16.99

- 730PS ..... *£297.99

60 sheets of 4x6 ..... £17.99
30 sheets of 6x8 ..... £19.99
30 sheets of 5x7 ..... £14.99

### OLYMPUS

- P440 ..... £329.99
- P11 ..... £99.99

P-A5NE A5 x 25 sheets ..... £29.99
P-A4NE A4 x 100 sheets ..... £79.99
P-RBNE Ribbon for 50 x A4 ..... £59.99
P-P40 for P10/11 x 40 sheets ..... £19.99
P-P100 for P10/11 x 100 sheets ..... £29.99

## Memory Cards

**Dane Elec • 10 Year Warranty**

CF 32MB x 12 ..... £6.80
CF 32MB x 12 ..... £7.99
CF 64MB x 12 ..... £9.49
CF 128MB x 12 ..... £12.49
CF 256MB x 12 ..... £17.49
CF 512MB x 12 ..... £29.49
CF 1GB x 12 ..... £49.49
SD 64MB x 12 ..... £10.49
SD 128MB x 12 ..... £14.49
SD 256mb x 12 ..... £24.49
SD 512mb x 12 ..... £34.49
SD 1GB x 12 ..... £59.99
SD 128MB x 60 ..... £19.49
SD 256MB x 60 ..... £29.49
SD 512MB x 60 ..... £39.49
SD 1Gig x 60 ..... £59.49

**Kingston • Lifetime Warranty**

CF 128MB x 12 Standard ..... £8.99
CF 256MB x12 Standard ..... £12.99
CF 512MB x 12 Standard ..... £20.99
CF 1GB x 12 Standard ..... £39.99
CF 512MB x 50 Elite Pro ..... £26.99
CF 1GB x 50 Elite Pro ..... £49.99
CF 2GB x 50 Elite Pro ..... £99.99
CF 1GB x 133 Ultimate ..... £59.99
CF 2GB x 133 Ultimate ..... £119.99
SD 128MB x 12 Standard ..... £8.99
SD 256MB x 12 Standard ..... £12.99
SD 512MB x 12 Standard ..... £19.99
SD 1GB x 12 Standard ..... £37.99
SD 256MB x 50 Elite Pro ..... £14.99
SD 512MB x 50 Elite Pro ..... £27.99
SD 1GB x 50 Elite Pro ..... £44.99
SD 512MB x 133 Ultimate ..... £30.99
SD 1GB x 133 Ultimate ..... £69.99
SD 2GB x 133 Ultimate ..... £109.99

### Microdrives

1 GB Hitachi Special ..... £34.99
2 GB Hitachi ..... £59.99
4 GB Hitachi ..... £99.99
Travel Kits ..... ~~£10.99~~ £9

### Lexar 5 Year Warranty

CF 128MB x 12 ..... £17.99
CF 256MB x 12 ..... £22.99
CF 512MB x 12 ..... £34.99
CF 256MB x 40 Platinum ..... £24.99
CF 512MB x 40 Platinum ..... £36.99
CF 1GB x 40 Platinum ..... £64.99
CF 512MB x 80 Pro ..... £39.99
CF 1GB x 80 Pro ..... £69.99
CF 2GB x 80 Pro ..... £139.99
SM 64MB Classic ..... £9.49
SM 1Gig Pro ..... £49.80

### Sandisk 10 Year Warranty

CF 256mb Ultra II ..... £19.99
CF 512mb Ultra II ..... £28.49
CF 1gig Ultra II ..... £49.49
CF 2gig Ultra II ..... £84.49
CF 1gig Extreme III ..... £55.49
CF 2gig Extreme III ..... £95.49
SD 512mb Ultra II ..... £29.49
SD 1gig Ultra II ..... £47.49
SD 1gig Extreme III ..... £55.99
MS 256 Pro ..... £17.99
MS 512 Pro ..... £27.99
MS 1gig Pro ..... £44.99
MS 2gig Pro ..... £79.99
MS 256 Pro Duo ..... £19.99
MS 512 Pro Duo ..... £29.99
MS 1gig Pro Duo ..... £49.99
MS 512 Pro Ultra 2 ..... £34.99
MS 1gig Pro Ultra 2 ..... £54.99
MS 2 gig Pro Ultra 2 ..... £99.99
MS 1gig Pro Ultra 2 Duo ..... £59.99
MS 1gig Pro Extreme 3 ..... £64.99

### Olympus xD - Picture Card

32mb ..... £4.99
64mb ..... £7.99
256mb ..... £19.99
512mb ..... £36.99
1gig ..... £59.99

### Fuji xD - Picture Card

16mb ..... £3.99
32mb ..... £6.99
64mb ..... £9.99
128mb ..... £12.99
256mb ..... £17.99
512mb ..... £32.99
1gig ..... £52.99

## Card Readers

**MICROTECH** CameraMate

CF •CF2 MD SM ..... £9.99
MS •CF CF2 MD ..... £9.99
PARALLEL PORT for SM only ..... £19.99
PARALLEL PORT for CF only ..... £19.99
MICROTECH ZIO SM or CF ..... £9.99
FUJI FIREWIRE DUAL CF/SM ..... £39.99
LEXAR ALL-IN-1 READER ..... £19.99
Smart Media Floppy Disk Adaptor ..... £29.99
DF USB SM ..... £5
Dual CF and SM ..... £9.99
xD ..... £12.99
SD/MM ..... £19.99
SANDISK SD/MM USB2 ..... £19.99

## General Accessories

Ohnar Digi Slide Duplicator ..... £69.9
Ohnar Digi Zoom Slide Duplicator £89.99
Sunpak Remotelite 2 Flash ..... £29.99
Kenro Digital Screen Protect Kit ..... £3.99

### Kinetronics

Optics First Aid Kit ..... £18.95
Camera CleanCam Kit ..... £10.95
Digital Scanner Glass Cleaning Kit ..£10.95

### Tripods

Pocket Tripod ..... £3.99
Velbon CX-444 ..... £29.99
Velbon CX-560 ..... £39.99
Velbon Maxi 347E ..... £49.99
VelbonMini-2 ..... £19.99
Velbon UB-40 Monopod ..... £19..99
Velbon UB-43 Monopod ..... £27.99
Slik XL ..... £19.99
Manfrotto 714SHB ..... £49.99
Manfrotto 714B ..... £54.99
Manfrotto 718B ..... £64.99
Manfrotto 718SHB ..... £59.99

### Filters

Cokin Digital Filter Kit G300 ..... £19.99
Cokin Digital Filter Kit G350 ..... £24.99
Cokin Digital Filter Kit G400 ..... £34.99
28mm Lens Protection ..... £12.99
43mm Lens Protection ..... £12.99
43mm Neutral Density ..... £19.99
Hoya 43mm Skylight 1B ..... £16.99
Hoya 43mm Pol ..... £18.99
Hoya 49mm UV/Haze ..... £8.99
Hoya 49mm Skylight 1B ..... £9.99
Hoya 49mm Pol ..... £18.99
Hoya 49mm Warm CPol ..... £38.99
Hoya 49mm Infra Red R72 ..... £28.99
Hoya 52mm CPol 1 Digipro ..... £79.99
Hoya 52mm Protect 1 Digipro £29.99
Hoya 52mm UV/Haze ..... £8.99
Hoya 52mm Skylight 1B ..... £9.99
Hoya 52mm CPol ..... £25.99
Hoya 52mm Pol ..... £19.99
Hoya 52mm CPol 1 Digipro ..... £79.99
Hoya 52mm Protect 1 Digipro £29.99
Hoya 52mm Warm CPol ..... £42.99
Hoya 52mm Infra Red R72 ..... £39.99
Hoya 55mm UV/Haze ..... £11.99
Hoya 55mm Skylight 1B ..... £12.99
Hoya 55mm CPol ..... £27.99
Hoya 55mm Pol ..... £22.99
Hoya 55mm CPol 1 Digipro ..... £32.99
Hoya 55mm Protect 1 Digipro £29.99
Hoya 55mm Warm CPol ..... £44.99
Hoya 55mm Infra Red R72 ..... £34.99
Hoya 58mm UV/Haze ..... 11.99
Hoya 58mm Skylight 1B ..... £12.99
Hoya 58mm CPol ..... £32.99
Hoya 58mm Pol ..... £24.99
Hoya 58mm CPol 1 Digipro ..... £89.99
Hoya 58mm Protect 1 Digipro £34.99
Hoya 58mm Warm CPol ..... £48.99
Hoya 58mm Infra Red R72 ..... £38.99
Hoya 62mm UV/Haze ..... £14.99
Hoya 62mm Skylight 1B ..... £15.99
Hoya 62mm CPol ..... £44.99
Hoya 62mm Pol ..... £26.99
Hoya 62mm CPol 1 Digipro ..... £99.99
Hoya 62mm Protect 1 Digipro £39.99
Hoya 62mm Warm CPol ..... £55.99
Hoya 62mm Infra Red R72 ..... £44.99
Hoya 67mm UV/Haze ..... £19.99
Hoya 67mm Skylight 1B ..... £21.99
Hoya 67mm CPol ..... £49.99
Hoya 67mm Pol ..... £32.99
Hoya 67mm CPol 1 Digipro ..£114.99
Hoya 67mm Protect 1 Digipro £44.99
Hoya 67mm Warm CPol ..... £64.99
Hoya 67mm Infra Red R72 ..... £64.99
Hoya 72mm UV/Haze ..... £24.99
Hoya 72mm Skylight !B ..... £26.99
Hoya 72mm CPol ..... £54.99
Hoya 72mm Pol ..... £44.99
Hoya 72mm Warm CPol ..... £74.99
Hoya 72mm Infra Red R72 ..... £99.99
Hoya 72mm CPol 1 Digipro ..... £74.99
Hoya 72mm Protect 1 Digipro £49.99
Hoya 77mm UV/Haze ..... £29.99
Hoya 77mm Skylight 1B ..... £32.99
Hoya 77mm CPol ..... £59.99
Hoya 77mm Pol ..... £54.99
Hoya 77mm Warm CPol ..... £89.99
Hoya 77mm Infra Red R72 ..£169.99
Hoya 77mm CPol 1 Digital ....£139.99
Hoya 77mm Protect 1 Digital ..£49.99
Hoya 82mm UV/Haze ..... £39.99
Hoya 82mm Skylight 1B ..... £44.99
Hoya 82mm CPol ..... £79.99
Hoya 82mm Pol ..... £77.99
Hoya 82mm CPol 1 Digital ....£169.99
Hoya 82mm Protect 1 Digital ..£69.99
Hoya 86mm Skylight 1B ..... £64.99
Hoya 58mm Pro UV/Haze ..... £27.99
Hoya 58mm Pro Skylight 1B ..... £29.99
Hoya 58mm Pro CPol ..... £69.99
Hoya 62mm Pro UV/Haze ..... £29.99
Hoya 62mm Pro Skylight 1B ..... £32.99
Hoya 62mm Pro CPol ..... £79.99
Hoya 67mm Pro UV/Haze ..... £34.99
Hoya 67mm Pro Skylight 1B ..... £36.99
Hoya 67mm Pro CPol ..... £89.99
Hoya 72mm Pro UV/Haze ..... £37.99
Hoya 72mm Pro Skylight 1B ..... £41.99
Hoya 72mm Pro CPol ..... £114.99
Hoya 77mm Pro UV/Haze ..... £39.99
Hoya 77mm Pro Skylight 1B ..... £44.99
Hoya 77mm Pro CPol ..... £134.99
Hoya 82mm Pro UV/Haze ..... £44.99
Hoya 82mm Pro Skylight 1B ..... £49.99
Hoya 82mm Pro CPol ..... £179.99

### Belkin USB/FW Hubs

4-Port Hub USB1 Special ..... £9.99
7-Port Port Hub USB ..... £29.99
Multi Port Hub USB ..... £49.99
4-Port Hub Fire Wire ..... £49.99

## Chargers/Batteries

**Hahnel**

HL80 Battery (Fuji, Kodak) ..... £29.99
HL-E1 Battery (Nikon) ..... £24.99
HL-1L Battery (Canon) ..... £19.99
HL-2L Battery (Canon) ..... £19.99
HL-511 Battery (Canon) ..... £34.99
HL-200 Battery (Minolta) ..... £19.99
HL-400 Battery (Minolta) ..... £39.99
HL-10B Battery (Olympus) ..... £19.99
HL-30B Battery (Olympus) ..... £19.99
Unioss XPress 150 Charger Kit ..£16.99
4 x 1800mAH Batteries ..... £7.99
4 x 2000mAH Batteries ..... £9.99
4 x 2500mAH Batteries ..... £12.99
GP Powerbank Charger kit ..... £24.99
Ansman PhotoCam 2 Charger Kit £19.99
Ansman Digi Speed 4 Charger Kit £39.99

## Memory Storage

Photainer 30gig ..... £249.99
Photainer 40gig ..... £289.99
Photainer 80gig ..... £359.99
Spare Battery ..... £39.99
Car Adaptor ..... £29.99
Innoplus i-With 40gig ..... £289.99
Innoplus i-With 80gig ..... £359.99
I-Tank 3 30gig ..... £99.99
I-Tank 3 60gig ..... £129.99
Spare Battery Image Tank 2 or 3 ..... £39.99
Flashtrax XT 40gig ..... £268.99
Flashtrax XT 80gig ..... £348.99
Spare Battery ..... £49.99
Car Adaptor ..... ~~£32~~ £19
Apacer CP200 ..... £199.99
Apacer CP300 ..... £269.99
Car Adaptor ..... £29.99
Spare Battery ..... £39.99
Case ..... £16.99
Jobo GIGA Vu Pro 40gig ..... £379.99

## Camera Cases

**Lowepro Digital Camera Cases**

DRes 50AW ..... £27.99
D-Res 30AW ..... £17.99
D-Res 25AW ..... £15.99
D-Res 20AW ..... £14.99
D-Res 10AW ..... £12.99
D-Res 8 Pouch ..... £12.99
D-Res 8S Pouch ..... £10.99
D-Res 9 Pouch ..... £12.99
D-Res 4M Pouch ..... £11.99
D-Res TL10 ..... £21.99
D-Res TL20 ..... £26.99
Rezo 10 ..... £9.99
Rezo 15 ..... £10.99
Rezo 40 ..... £15.99
Rezo 110AW ..... £19.99
Rezo 120AW ..... £24.99
Rezo 140AW ..... £29.99
Rezo 160AW ..... £34.99
Nova 1 ..... £26.99
Nova 2 ..... £32.99
Nova 3 ..... £36.99
Mini Trekker AW ..... £73.99
Computer Trekker AW ..... £99.99
Computer Trekker AW Plus ..... £169.99
Photo Trekker Classic ..... £99.99
Orion Trekker II ..... £49.99
Toploader 65AW ..... £39.99
Toploader Zoom Mini ..... £17.99
D-Res 6 Card/Batt Wallet ..... £9.99
D-Res 4 Memory Wallet ..... £7.99

## Printer Consumables

### Epson Paper

SO41054 A6 50 matt 144g ..... £6.99
SO41061 A4 100 matt 102g ..... £9.99
SO41068 A3 100 matt 105g ..... £32.99
SO41121 5x8 30 matt 188g ..... £5.99
SO41122 8x10 30 matt 188g ..... £14.99
SO41125 A3 20 gloss 141g ..... £17.99
SO41126 A4 20 gloss 141g ..... £5.99
SO41134 4x6 20 194g ..... £5.99
SO41140 A4 20 194g ..... £7.99
SO41142 A3 20 194g ..... £18.99
SO41143 A3+ 20 194g ..... £22.99
SO41177 A4 20 194g ..... £5.99
SO41256 A4 50 matt 167g ..... £8.99
SO41261 A3 50 matt 167g ..... £21.99
SO41264 A3+ 50 167g ..... £29.99
SO41287 A4 20 gloss 255g ..... £11.99
SO41303 100mmx8m matt 192g ..... £9.99
SO41315 A3 20 gloss 255g ..... £34.99
SO41316 A3+ 20 gloss 255g ..... £33.99
SO41328 A3+ 20 s/gloss 251g ..... £34.99
SO41330 100mmx8m s/gloss 251g ..... £12.99
SO41332 A4 20 s/gloss 251g ..... £11.99
SO41334 A3 50 s/gloss 192g ..... £29.99
SO41336 210mmx10m s/gloss 251g .... £29.99
SO41338 329mmx10m s/gloss 251g .. £49.99
SO41340 A3+ 50 matt 192g ..... £33.99
SO41342 A4 50 matt 192g ..... £10.99
SO41344 A3 50 matt 192g ..... £26.99
SO41352 A3+ 20 matt 188g ..... £22.99
SO41377 210mmx10m gloss 251g ..... £29.99
SO41442 A4 500 100g ..... £9.99
SOI41560 A4 20 satin 245g ..... £14.99
SO41622 A4 50 194g ..... £16.99
SO41624 A4 50 255g ..... £22.99
SO41729 4x6 50 ..... £5.99

### Epson Colour Ink

T048140BA Multipack (6) ..... £39.99
Inkset for 800/1800 (8) ..... £85.42
Inkset for 2400 (9) ..... £85.42
Inkset for R240 (4) ..... £29.60
T5570 PicturePack ..... £24.99
TO01011 ..... £19.99
TO09 ..... £17.99
SO20193/SO20110 ..... £14.99
TO08 ..... £13.99
SO20191 ..... £19.99
SO20089 ..... £19.99
T027 ..... £16.99
TO16 ..... £29.99
TO322 ..... £11.99
TO323 ..... £11.99
TO324 ..... £11.99
TO325 ..... £28.99
TO29 ..... £20.99
T0332 - 336 ..... £10.99
T0342 - 346 ..... £12.99
TO422/3/4 ..... £11.49
T041 ..... £20.99
T0482 - 486 ..... £9.99
T0540 ..... £5.99
T0542/3//4/7/9 ..... £11.99
T0592 - 595 ..... £9.99

### Epson Black Ink

SO20189 ..... £19.99
SO20093/SO20187 ..... £14.99
TO07 ..... £16.99
TO07 x 2 ..... £28.99
TO15 ..... £24.99
TO26 ..... £21.99
TO28 ..... £24.99
T0321 ..... £26.99
T0331 ..... £10.99
T0341 ..... £10.49
T0347 ..... £12.49
T0348 ..... £10.49
T040 ..... £24.99
T0481 ..... £9.99
T0541 ..... £11.99
T0548 ..... £11.99
T0592 - 595 ..... £9.99
T0591/597/598 ..... £9.99

### Canon Ink

CLI-8 each ..... £9.99
BC1-6 each ..... £7.99
BC13EC/EM/EY each ..... £6.99
BC13EBK ..... £8.49
BC1-24BK ..... £5.99
BC24BK Twin ..... £9.99
BC1-24C ..... £11.49
BC1-24C Twin ..... £18.99
BC1-15 Twin Black ..... £22.99
BC1-15 Twin Colour ..... £14.99
BC1-16 Twin Colour ..... £16.99
PG-40 ..... £11.99
PG-50 ..... £16.99
CL-41 ..... £14.99
CL-51 ..... £19.99
5-ink set BCI-3 bk, BCI-6 bk, C, M, Y ..... £38.42
6-ink set BCI-6 bk, C, PC, M, PM, Y ..... £45.52
8-ink set BCI-6 bk, C, PC, M, PM, Y, G, R ..£60.72

### Canon Paper

HR-101 A3 Gloss 100g 20 ..... £3.99
HR-101 A3 Gloss 100g 100 ..... £19.99
HR-101 A4 Gloss 100g 200 ..... £18.99
HR-101 A4 Gloss 100g 50 ..... 4.99
GP-301 A3 Gloss 160g 20 ..... £13.99
GP-401 A4 Gloss 160g 20 ..... £6.99
PR-101 4x6 Gloss 245g 20 ..... £5.49
PR-101 A3 Gloss 245g 10 ..... £22.99
PR-101 A4 Gloss 245g 15 ..... £8.99
PP-101 A4 Gloss 20 ..... £7.99
PP-101 A3 Gloss 20 ..... £19.99
PP-101 5x7 Gloss 20 ..... £5.49
PP-101 4x6 Gloss 20 ..... £2.99
SG-101 A4 Semi Gloss 20 ..... £8.99
SG-101 4x6 Semi Gloss 20 ..... £3.99
SG-101 A3 Semi Gloss 20 ..... £22.99
MP-101 A4 Matte 50 ..... £7.99
MP-101 A3 Matte 40 ..... £13.99
KP-36IP Paper & Ribbon(36) ..... £11.99
KC-36IP Paper & Ribbon(36) ..... £7.99

### Olympus Paper & Ribbon

A6 Paper & Ribbon (60) ..... £29.99
Ribbon for 50 A4 (P400/440) ..... £59.99
A4 Paper (100) (P400/440) ..... £79.99
A5+ Paper (25) (P400) ..... £34.99
MP-10UJ4E 10 x A4 Glossy ..... £16.99

### Hewlett Packard Ink

hp56 ..... £14.99
hp57 ..... £24.99
hp58 ..... £17.49
hp59 ..... £21.99


internet Binoculars .com
www.internetbinoculars.com
for Discount Binoculars


**PRINTER INK & PAPER OFFER:**
**5% off our advertised prices with any Printer***
*Offer continues after purchase.
inks or paper must be relevant to the printer supplied.

**Products supplied overnight from our extensive stocks**

**Enquiries and helpline:**
**Tel 01494 88 33 99**
**Fax 01494 88 33 91**


YYePG Proudly Presents, Thx for Support

# digitalDEPOT FOR PRICE, QUALITY, SERVICE

the UK's leading dedicated digital retailer and e-tailer

NEW

## SAMSUNG DIGIMAX PRO 815

**MASSIVE ZOOM – BIGGEST YET LCD**

- 8 Megapixels
- 15x Optical Zoom (eqiv 28-420mm)
- 3.5 inch Massive LCD

ONLY £449.00

with £50 cashback – get it now for just £399.00!

## CANON SELPHY DS 700

- 4" x 6" photo prints in 85 sec. Connects to TV to view and print your pictures using remote control supplied.

£69.90

NEW

## FUJI V10

INCLUDES 256mb xD Card and Case

ISO RANGE 64 - 1600
4 BUILT IN GAMES

- 5 Megapixels
- 3.4x Optical Zoom
- 3 Inch LCD

ONLY £259.99

## SECOND HAND NIKON D1X BODY

(EX RAF PRODUCT)

Includes: MH-16 Charger and 2x batteries

£699.00

## PENTAX BARGAINS

*ist DS Body (Ex-Demo)....Sold Out
SMC 18-35mm f4-5.6AL.....£199.00
SMC 18-55mm f3.5-5.6AL...£159.00
SMC 28-80mm f3.5-5.6AL.....£89.90

AF3600 Flash .....£179.00

## CANON LENSES

CANON PRO DEALER

| | | |
|---|---|---|
| EF | 50mm f1.4 USM | £239.00 |
| EF-S | 60mm f2.8 Macro | £277.00 |
| EF | 85mm f1.8 USM | £264.00 |
| EF | 300mm f4 L IS USM | £905.00 |
| EF-S | 10-22mm f3.5 USM | £514.00 |
| EF | 16-35mm f2.8 L USM | £1049.00 |
| EF | 17-40mm f4 L USM | £533.00 |
| EF-S | 17-85mm f4 USM | £418.00 |
| EF | 24-85mm f3.5 USM | £239.00 |
| EF | 24-70mm f2.8 L USM | £881.00 |
| EF | 24-105mm f4 IS USM | £681.00 |
| EF | 28-135mm f3.5 IS USM | £328.00 |
| EF | 70-200mm f2.8 L IS USM | £1270.00 |
| EF | 70-200mm f4 USM | £469.00 |
| EF | 70-300mm f4 IS USM | £361.00 |
| EF | 100-400mm f4.5 L IS USM | £1077.00 |

## SIGMA LENSES

SECIALIST LENS STOCKIST

SIGMA DIGITAL ONLY LENSES

| | |
|---|---|
| 30mm f2.4 HSM DC EX | £277.00 |
| 18-50mm f3.5-5.6 DC | £79.00 |
| 18-50mm f2.8 EX DC | £300.00 |
| 18-125mm f3.5-5.6 DC | £186.00 |
| 18-200mm f3.5-6.3 DC | £250.00 |
| 55-200mm f3.5-5.6 DC | £106.00 |

SIGMA LENSES

| | |
|---|---|
| 10-20mm f4-5.6 EX DC HSM | £329.00 |
| 12-24mm f4.5-5.6 EX DG | £438.00 |
| 24-70mm f2.8 EX DG Macro | £279.00 |
| 28-105mm f2.8-4 DG ASP | £175.00 |
| 28-300mm f3.5-6.4 MACRO | £189.00 |
| 70-200mm f2.8 EX APO DG Macro | £596.00 |
| 70-300mm f2.8 DG Macro | £97.00 |
| 50mm f2.8 EX DG Macro | £194.00 |

SIGMA FOUR THIRDS

| | |
|---|---|
| 18-50mm f3.5-5.6 | £84.90 |
| 18-125mm f3.5-5.6 | £199.90 |

## NIKKOR LENSES

| | |
|---|---|
| 50mm f1.4 D | £212.00 |
| 85mm f1.8 D | £321.00 |
| 17-55mm AF-S DX f2.8 | £959.00 |
| 24-120mm VR IF ED f3.5 | £427.00 |
| 28-70mm AFS D f2.8 | £1125.00 |
| 70-200mm VR AFS G f2.8 | £1162.00 |
| 80-400mmAF VR f4.5/5.6 | £1005.00 |

Please call for quote on other Nikkor lenses

## SIGMA FLASH

| | |
|---|---|
| EM 140 DG TTL MACRO Ring flash | £261.00 |
| SUPER EF 500 DG Full TTL | £145.00 |

## CANON

SPECIAL OFFER

100-400 IS USM

including 77mm Tiffen UV Filter

ONLY £1077.00

## TAMRON LENSES

| | |
|---|---|
| 11-18mm f4.5-5.6 | £379.00 |
| 18-200mm f3.5-6.3 | £274.00 |
| 28-300mm f3.5-6.3 | £205.00 |

## LENSBABIES

| | |
|---|---|
| Original | £59.90 |
| Lensbaby II | £99.90 |

## TIFFEN FILTERS

| UV PROTECTOR | | CIRCULAR POLARISING | |
|---|---|---|---|
| 49mm | £7.90 | 49mm | £25.90 |
| 52mm | £8.49 | 52mm | £26.90 |
| 55mm | £9.90 | 58mm | £29.90 |
| 58mm | £11.90 | 62mm | £37.90 |
| 62mm | £14.90 | 67mm | £39.90 |
| 67mm | £17.90 | 72mm | £49.90 |
| 72mm | £21.90 | 77mm | £52.90 |
| 77mm | £25.90 | 82mm | £86.90 |
| 82mm | £34.90 | | |

## REFURBISHED OLYMPUS CAMERAS

OLYMPUS C-3000 only £79.90

C-720 Ultra Zoom only £99.90

C-730 Ultra Zoom only £99.90

## MINOLTA BARGAINS

| | |
|---|---|
| DYNAX 7D BODY | Sold Out |
| AF17-35 f2.8-4 (D) | Sold Out |
| AF 28-75 f2.8 (D) | £289.00 |
| VC-7D CONTROL GRIP | £119.00 |
| 3600 HS (D) Program Flash | £129.90 |
| 5600 HS (D) Program Flash | £249.90 |
| MACRO TWIN FLASH 2400 | £219.00 |
| RC1000L REMOTE CORD | £49.99 |
| RC1000S REMOTE CORD | £29.95 |
| ACT-100 TELE CONVERTER | £119.00 |
| AD10 APS ADAPTOR | £14.90 |
| APC120 CORD | £9.90 |
| AC-U3 AC ADAPTOR | £29.90 |
| MINOLTA X1 | £199.00 |

## STUPID PRICE OLYMPUS P10

DYE-SUB PHOTO PRINTER

Fully refurbished by Olympus and Boxed
Limited stock only - so hurry!

310 dpi Dye-Sub prints. 16 Million colours, A6 prints in just 44 sec, PictBridge direct from camera printing, or connects to PC via USB.

ONLY £19.90

## SONY SCOOP

FAMOUS SONY DSC P200

Super compact aluminium body • Fast start-up • PictBridge • Direct Print • MPEG movie mode • Play back on TV • Optical view finder • Auto, Manual, Scene and Burst modes.

- 7.2 Million Pixels
- 3x Optical Zoom ZEISS Lens
- 2.0" Hybrid LCD Screen

INCLUDES: 512MB MEMORY STICK,WORTH £28.60 AND REAL LEATHER CASE, WORTH £17.90

ALL FOR £199.00

## OLYMPUS ZUIKO LENSES

| | |
|---|---|
| 8mm F3.5 | £519.00 |
| 35mm F3.5 Macro | £142.00 |
| 50mm F2.0 Macro | £350.00 |
| 150mm Fixed F2.0 | £1914.00 |
| 300mm Fixed | £4770.00 |
| 7-14mm F4.0 | £1180.00 |
| 11-22mm F2.8-3.5 | £554.00 |
| 14-54mm F2.8 | £443.00 |
| 18-180mm F3.5-6.3 | £331.00 |
| 35-100mm F2.0 | £1605.00 |
| 40-150mm F3.5-4.5 | £189.00 |
| 50-200mm F2.8 | £698.00 |
| 90-250mm F2.8 | £3777.00 |
| EC-14 1.4 X | £321.00 |
| EX-25 | £100.00 |
| MF-1 | £99.00 |

## WANTED

USED DIGITAL SLR's

TRADE-IN OR WE BUY FOR CASH

MAIL ORDER 'TRADE IN' SERVICE AVAILABLE CALL 01438 367619

## PANASONIC NV-GS120EB

Mini DV Digital Camcorder

CLEARANCE OFFER

ONLY £349.00

## OLYMPUS P440 DYE-SUB PRINTER

Fully refurbished by Olympus Europe and offered with 12 month warranty, at a fantastic price.

- Professional Dye-Sub Printer
- A4 Prints in 75 secs
- 1.8 inch LCD Display
- xD Card and PC type II, Sockets
- USB Interface

ONLY £169.00

DYE-SUB RIBBON X 50 PRINTS ONLY £52.90
100 SHEETS DYE-SUB PAPER ONLY £73.90

## NIKON SLR's

NIKON D50
18 - 55mm lens kit
ONLY £429.00

NIKON D70s
18 - 70mm lens kit
ONLY £719.00

LIMITED OFFER

MASSIVE STOCKS OF NIKKOR LENSES

## OLYMPUS 'E' SERIES ACCESSORIES

| | | |
|---|---|---|
| BLM-1 | Li-ion Battery | £59.90 |
| BCM-1 | Charger Unit | £49.90 |
| B-10LPB | Lithium Polymer Battery | £99.00 |
| BCL-1 | Charger Unit | £199.90 |
| AC-1 | AC Adapter | £119.90 |
| BLL-1 | Li-ion Battery | £105.90 |
| HV-1 | High Voltage pack | £275.90 |
| BCM-2 | Charger Unit | £94.90 |
| BN-1 | Battery Pack | £139.90 |
| FC-1 | Macro Flash Controller | £278.90 |
| HLD-2 | Power battery Holder | £166.90 |
| FP-1 | Flash Power Grip | £243.90 |
| FL-50 | Flash Unit | £229.90 |
| FR-1 | Flash Adapter Ring | £82.90 |
| RF-11 | Ring Flash | £209.90 |
| TF-22 | Twin Flash | £345.90 |
| EP-1 | Eye Cup | £7.90 |
| E Shoulder Strap | | £14.90 |
| EP 2 | Eyecup | £18.90 |
| EP 5 | E300/E500/E330 Eyecup | £5.99 |
| EP 6 | Large Eyecup | £21.99 |
| ME 1 | Eyepiece Magnifier | £33.90 |
| VA 1 | Right Angle Viewfinder | £149.00 |

'E' Series lenses in stock at discount prices.
E10 - E20 Accessories in stock at discount prices.

## OLYMPUS MJU 300

Fully refurbished by Olympus

only £74.90

3 Million pixels, 3x Optical Zoom Includes Battery/Charger 16mb Card Software and all Leads.

GREAT CAMERA – GREAT PRICE

## X DRIVE 60GB

PORTABLE STORAGE DEVICE

NOW ONLY £79.90

## BUY TODAY – PAY LATER

10% Deposit and pay in 6 months - interest free or extend your payments with interest payable

## SONY

WE ARE SONY STOCKISTS AND CARRY THE FULL RANGE OF SONY DIGITAL CAMERAS AND CAMCORDERS

visit www.digitaldepot.co.uk to see our full range

## PATERSON

INTERFIT HOME STUDIO FLASH KIT

2 HEAD KIT, CONTAINS ALL YOU NEED TO SET-UP A HOME STUDIO

Two Flash heads, two lighting stands, Softbox, white umbrella, power cables and sync cords.

ALL FOR ONLY £219.00

## CompactFlash 16MB £1.99

POST FREE

## CompactFlash 32MB £2.99

POST FREE

## SD 32MB £2.99

POST FREE

## MMC 32MB £2.19

POST FREE

MINIMUM TELEPHONE ORDER VALUE £5.00

## CANON 350D MINI BUNDLE

- 350D 18-55mm Lens Kit
- 58mm Tiffen UV Filter
- 1GB Kingston CF Card

ALL FOR ONLY £529.99

## DOMKE BAGS LOWEST PRICES IN EUROPE

10% OFF ALL LOWEPRO BAGS

## INKJET CARTRIDGES

HUGE STOCKS

CANON • EPSON • HP

See our website for the full range

## CANON IXUS 60

- 6 Megapixels
- 3x Optical Zoom
- 16 Shooting modes
- In camera photo effects
- 2.5 inch LCD

ONLY £239

NEW FROM CANON

## CANON IXUS 65

MASSIVE 3" LCD SCREEN

- 6 Megapixels
- 3x Optical Zoom
- 16 Shooting modes
- In camera photo effects

ONLY £279

NEW FROM CANON

## CANON IXUS 800 IS

IMAGE STABILISED

- 6 Megapixels
- 4x Optical Zoom
- 16 Shooting modes
- In camera photo effects

ONLY £319

NEW FROM CANON

## CANON S3 IS

monster zoom compact

- 6 Megapixels
- 12x Optical Zoom
- 2" Vari angle LCD
- Optical Image Stabiliser
- High ISO low light flexibility

ONLY £359

# www.digitaldepot.co.uk

low prices are just the beginning

E&OE: PRICES CORRECT AT THE TIME OF GOING TO PRESS. DIGITAL DEPOT RESERVE THE RIGHT TO CHANGE OR AMEND ANY PRICE WITHOUT PRIOR NOTICE.

# digitalDEPOT THE UK's OLYMPUS E SPECIALISTS

sensational offers on E-System cameras - limited stocks only

## E-1 BODY OFFER

**The Olympus E-1 has set new standards in the world of digital photography and if you need proof, then pick–up and try the E-1 at our Stevenage store.**

- 5.0 million pixels
- Full frame transfer CCD
- Olympus FourThirds standard
- Magnesium alloy body
- Unique dust protection system
- USB and IEEE 1394 interface

**ONLY £399.00**

**CAMERA WITH 14-54mm ZUIKO LENS ONLY £799.00**

BACK AGAIN DUE TO DEMAND

## E-300 BODY

This offer is of particular interest to existing Olympus OM 35mm camera owners and 'E' series owners looking for a spare body. The Zuiko MF1 adapter enables you to use your existing OM series lenses. The E-300 offers 8 million pixels and also features the exclusive Olympus dust reduction system, to keep your sensor free of dust for razor sharp results.

The offer includes BLM-1 lithium battery, charger unit, eyepiece cover, strap, USB and Video cables, software, manual, OM Zuiko lens adapter and 'E' Sytem case.

**ALL FOR ONLY £349.00**

**CAMERA WITH 14-45mm ZUIKO LENS ONLY £399.00**

## DIGITAL DEPOT FOR THE BEST MEMORY CARD DEALS

Kingston TECHNOLOGY

**ALL KINGSTON MEMORY CARDS CARRY A LIFETIME WARRANTY**

| COMPACT FLASH | CF ELITE PRO | CF ULTIMATE | SECURE DIGITAL | SD ELITE PRO | SD ULTIMATE |
|---|---|---|---|---|---|
| 128mb.. £10.23 | 512mb.. £21.53 | NEW (100x) | 128mb.... £7.37 | 256mb.. £11.84 | 512mb.. £33.69 |
| 256mb.. £11.58 | 1gb..... £32.31 | 1gb..... £42.85 | 256mb.. £10.53 | 512mb.. £20.46 | 1gb..... £42.85 |
| 512mb.. £15.55 | 2gb..... £54.94 | 2gb..... £73.32 | 512mb.. £15.55 | 1gb..... £32.31 | 2gb..... £93.20 |
| 1gb..... £24.99 | 4gb..... £118.49 | 4gb..... £165.14 | 1gb..... £24.99 | 2gb..... £67.86 | |

**MEMORY CARDS**

MASSIVE RANGE ALWAYS IN STOCK

**FANTASTIC LOW PRICES**

Call for this weeks special deal!

check out www.digitaldepot.co.uk

### SanDisk

The best selling Compact Flash Card (5 Year Guarantee)

| | | |
|---|---|---|
| 256mb | Compact Flash | £14.30 |
| 512mb | Compact Flash | £24.20 |
| 1gb | Compact Flash | £38.30 |
| 2gb | Compact Flash | £60.40 |
| 4gb | Compact Flash | £120.80 |
| 256mb | Reduced Size MMC | £17.10 |
| 512mb | Reduced Size MMC | £28.30 |
| 256mb | Secure Digital | £14.30 |
| 512mb | Secure Digital | £24.20 |
| 1gb | Secure Digital | £38.30 |
| 2gb | Secure Digital | £60.40 |
| 256mb | Mini Secure Digital | £14.30 |
| 512mb | Mini Secure Digital | £24.20 |
| 1gb | Mini Secure Digital | £38.30 |
| 2gb | Mini Secure Digital | £60.40 |
| 256mb | Memory Stick PRO | £18.50 |
| 512mb | Memory Stick PRO | £28.60 |
| 1gb | Memory Stick PRO | £42.70 |
| 2gb | Memory Stick PRO | £85.30 |
| 256mb | Memory Stick DUO PRO | £18.50 |
| 512mb | Memory Stick DUO PRO | £28.60 |
| 1gb | Memory Stick DUO PRO | £42.70 |
| 2gb | Memory Stick DUO PRO | £85.30 |
| 256mb | Cruzer Micro | £13.70 |
| 512mb | Cruzer Micro | £22.10 |
| 1gb | Cruzer Micro | £35.30 |
| 2gb | Cruzer Micro | £56.40 |

### SanDisk Ultra II

For professional results, reads at 10mb per second, writes at 9mb per second.

Works in extreme temperatures.

| | | |
|---|---|---|
| 512mb | CompactFlash | £29.00 |
| 1gb | CompactFlash | £44.40 |
| 2gb | CompactFlash | £70.00 |
| 4gb | CompactFlash | £140.00 |
| 8gb | CompactFlash | £280.00 |
| 512mb | Secure Digital Ultra II | £29.00 |
| 1024mb | Secure Digital Ultra II | £44.40 |
| 2048mb | Secure Digital Ultra II | £70.00 |
| 512mb | Secure Digital Ultra II Plus | £30.20 |
| 1024mb | Secure Digital Ultra II Plus | £49.90 |
| 512mb | Memory Stick PRO Ultra II | £34.40 |
| 1024mb | Memory Stick PRO Ultra II | £51.20 |
| 2048mb | Memory Stick PRO Ultra II | £102.30 |
| 512mb | Memory Stick DUO PRO Ultra II | £46.90 |
| 1gb | Memory Stick DUO PRO Ultra II | £87.20 |
| 2gb | Memory Stick DUO PRO Ultra II | £200.40 |

### SanDisk Extreme III

20MB/sec = 133x

| | | |
|---|---|---|
| 1GB | Extreme Compact Flash | £51.80 |
| 2GB | Extreme Compact Flash | £81.70 |
| 4GB | Extreme Compact Flash | £163.40 |
| 1GB | Extreme Secure Digital | £51.80 |
| 1GB | M/S PRO Extreme | £57.70 |
| 2GB | M/S PRO Extreme | £109.60 |

**SANDISK MEMORY FOR MOBILE PHONES**

**MMC MOBILE**

| | | |
|---|---|---|
| 256mb | MMC Mobile | £18.60 |
| 512mb | MMC Mobile | £28.30 |

**MICRO SD/TRANSFLASH**

| | | |
|---|---|---|
| 256mb | Transflash | £15.00 |
| 512mb | Transflash | £25.40 |
| 1GB | Transflash | £40.20 |

### LEXAR PROFESSIONAL

**Professional Compact Flash (x133)**

| | |
|---|---|
| 1GB Compact Flash | £50.00 |
| 2GB Compact Flash | £85.00 |
| 4GB Compact Flash | £169.00 |

**Professional Secure Digital (x133)**

| | |
|---|---|
| 1GB Secure Digital | £50.69 |
| 2GB Secure Digital | £85.97 |

### OLYMPUS

| | | |
|---|---|---|
| 256mb | xD Card | £17.99 |
| 512mb | xD Card | £32.99 |
| 1gb | xD Card | £52.99 |
| 512mb (256mb x 2) | Twin Pack | £36.30 |
| 128mb | MAUSB–300 | £24.90 |

(128mb Card & USB xD reader/writer)

**NEW H Type (High Speed Series)**

| | | |
|---|---|---|
| 256mb | xD Card | £20.99 |
| 512mb | xD Card | £34.99 |
| 1gb | xD Card | £56.99 |

### FUJIFILM

| | | |
|---|---|---|
| 256mb | xD Card | £17.99 |
| 512mb | xD Card | £32.99 |
| 1gb | xD Card | £52.99 |

### Kingston TECHNOLOGY

**Standard Small Format SD Cards**

**Mini SD**

| | |
|---|---|
| 128mb | £8.15 |
| 256mb | £12.59 |
| 512mb | £26.28 |
| 1gb | £42.84 |

**Latest MMC Technology**

Up to 7mb/sec write and 11mb/sec read

**MMC PLUS**

| | |
|---|---|
| 256mb | £14.28 |
| 512mb | £24.09 |
| 1gb | £41.13 |
| 2gb | £95.23 |

**DV RS-MMC**

Up to 7mb/sec write and 8mb/sec read

**MMC MOBILE (Dual Voltage)**

| | |
|---|---|
| 128mb | £8.18 |
| 256mb | £11.79 |
| 512mb | £18.27 |
| 1gb | £33.83 |

## VISIT OUR FAMOUS STEVENAGE STORE, MASSIVE STOCKS, GREAT SERVICE

**STEVENAGE: 13 High Street, Stevenage Old Town, Herts. SG1 3BG Tel: 01438 367619** Open 9 – 5.30 Monday to Saturday, 11 – 4.00 Sundays

EASY FREE PARKING, 1 MILE FROM JNC 8 A1M MOTORWAY, 10 MIN WALK FROM STATION

# www.digitalDEPOT.co.uk

low prices are just the beginning

SALES HOTLINE 01438 745544 MON-SAT 9-5.30 SUN 11-4

E&OE: PRICES CORRECT AT THE TIME OF GOING TO PRESS. DIGITAL DEPOT RESERVE THE RIGHT TO CHANGE OR AMEND ANY PRICE WITHOUT PRIOR NOTICE.

115 Lower Church Road
**BURGESS HILL**
West Sussex, RH15 9AA

16 The Broadway
**HAYWARDS HEATH**
West Sussex, RH16 3AL

# PARK CAMERAS

whether you visit our stores, call us or buy online, you can always be sure of a great deal and superb service
visit us online at
**www.parkcameras.com** or
**Tel: 08450 580 480**
**(calls charged at Local Rates)**

visit our showrooms, call or visit us online at: www.parkcameras.com

**Free Delivery** to UK Mainland on Cameras/ Printers/ Scanners!

# CANON EOS 30D IN STOCK

NEW!!! NEW!!!

## Please phone or see our website for details

- 8.2 Megapixel APS-C size CMOS sensor
- 5 fps and 30 JPEG burst • 2.5" LCD screen
- Wide 100-3200 ISO range
- Rugged magnesium alloy body

**Our Price: £Competitive**

**Canon EOS 30D Body Canon Extra Promotion: Up to £105.00 cash back on selected Canon lenses, flashguns etc. Please phone or see web for details**
**Save ££'s in our package deals - Please phone or see web for competitive pricing**

## Canon EOS 5D

**NOW WITH £200.00 CASHBACK!!**
**(You pay £1799.00 and claim £200.00 cashback from Canon)**

- 12.8MP Full frame CMOS Sensor • Tough, while compact magnesium alloy body
- Large 2.5" LCD • 9-point AF • 3 fps 60 JPEG image burst • DIGIC II

Canon EOS 5D Body Canon Extra Promotion: Up to £105.00 cash back on selected Canon lenses, flashguns etc. Please phone or see web for details

lens sold separately SRP £2539.99

**EFFECTIVELY ONLY £1599!!**

## EOS 1D Mark II N

- 8.2 MP CMOS
- 8.5 fps • 2.5" LCD

**Our Price £2379.00***
Body SRP £3049.99

| | |
|---|---|
| 1D II N + NP-E3 Spare Battery | £2468.99 |
| 1D II N + NP-E3 + 2GB Extr. III | £2563.99 |
| 1D II N + EF 70-200mm f2.8 L | £3679.00 |

Please call or e-mail for a quote for your personal requirements

## CANON EOS 30D Seminar Day

**with Canon's own digital experts**
**11:15am - 5:45pm**
**Tuesday 2nd May 2006**
**at our Burgess Hill Branch**
please phone us to book your preferred time - limited places per session

## Canon Digital IXUS 60

NEW!

- 6 Mega Pixels
- 3 x Optical Zoom
- New ISO 800 setting
- New 16:9 wide aspect ratio
- 2.5" Screen

SRP £299.00

**Phone or see website for our Low Price**

## Other Canon Cameras

| | |
|---|---|
| PowerShot A430 New | £124.99* |
| PowerShot A530 New | £159.00* |
| Digital Ixus I Zoom Cranberry | £179.99* |
| Digital Ixus 55 | £199.99 |
| Digital Ixus Wireless New | £299.99 |
| Digital Ixus 750 + DCC 70 case | £294.99* |
| PowerShot S80 | £339.99* |

TC DC58A 1.5x Tele Converter for Pro 1
WAS £199.00 **NOW £59.99**
LA-DC58C (lens adaptor for Pro 1)
WAS £55.00 **NOW £45.00**
TC DC58A + LA-DC58C
WAS £254.00 **NOW £99.99***

## EOS 350D

- 8.0 Mega Pixel
- 3 fps

NEW LOW PRICE
**Only £464.99***

Lens Sold Separately

| | |
|---|---|
| 350D Body + EF-S 18-55mm f3.5-5.6 | £514.99* |
| 350D +18-55mm+Grip | £579.99* |
| 350D +18-55mm+Grip+Spare Battery | £619.99* |
| 350D +18-55mm+55-200mm | £649.99* |
| 350D + 17-40mm f/4.0L | £1017.99* |
| 350D + 28-135mm IS | £799.99 |
| 350D + EF-S 17-85mm f/4-5.6 IS USM | £844.98* |

**Canon BG-E3 Battery Grip Only £95.00 if bought with camera**

## Digital IXUS i zoom Black

SRP £319.00

- 5.0 million pixels
- 2.4 x optical zoom

**Our Price £164.99***

Canon DCC 200 leather case - normally £19.99 or £10 when bought with camera!

## EOS 1Ds Mark II

- 16.7 million pixels
- Full Frame CMOS
- Professional Build

**Our Price £4599.00***
SRP £5999.99 Lens Sold Separately

| | |
|---|---|
| 1Ds II + NP-E3 Spare Battery | £4689* |
| 1Ds II + NP-E3 + 1GB Extr. III | £4754* |
| 1Ds II + EF 17-40mm f/4L USM | £5143* |
| 1Ds II + EF 24-70mm f/2.8 USM + SanDisk 1GB Extreme III | £5583* |

Phone/e-mail for your custom quote

## Canon Digital IXUS 65

NEW!

- 6 Mega Pixels
- 3 x Optical Zoom
- New ISO 800 setting
- New 16:9 wide aspect ratio
- Huge 3.0" Screen

SRP £349.00

**Phone or see website for our Low Price**

## Canon Digital Ixus 800 IS

NEW!

SRP £399.00

- 6 Mega Pixels
- 4 x Optical Zoom
- First Digital Ixus with Image Stabiliser
- New ISO 800 setting
- New 16:9 wide aspect ratio
- 2.5" Screen

**Phone or see website for our Low Price**

## Canon Camcorders

| | |
|---|---|
| MV X4i (3 only) | £719.99 |
| MV X40 | £559.99 |
| DC10 (2 only) | £389.00 |
| DC10 + Spare BP-208 Battery | £429.00 |
| DC20 New | £479.00 |
| DC40 New DVD camcorder | £649.00 |
| DC100 New DVD camcorder | £Phone |
| XM2 £1399.99 | |
| XL H1 New High Definition | £Phone |

Please phone or visit our website for prices on tapes, batteries and other camcorder accessories.

## CANON LENSES

| | |
|---|---|
| EF 14mm f/2.8L | £1,459.00* |
| EF 15mm f/2.8 fish eye | £530.00* |
| EF 20mm f/2.8 | £337.00* |
| EF 20mm f/1.4 L USM | £944.00* |
| TSE 24mm f/3.5 L | £899.00* |
| EF 28mm f/1.8 USM | £324.00* |
| EF 28mm f/2.8 | £139.00* |
| EF 35mm f/1.4 L | £934.00* |
| EF 50mm f/1.8 II | £79.99 |
| EF 50mm f/1.4 USM | £244.00 |
| EF 50mm f/2.5 Macro | £196.00 |
| EF-S 60mm f/2.8 USM Macro | £289.00* |
| MP-E 65mm f/2.8 1-5 x Macro | £719.00 |
| EF 85mm f/1.2L | £1,239.00 |
| EF 85mm f/1.2L II USM New | £Phone |
| EF 85mm f/1.8 USM | £269.00 |
| EF 100mm f/2.0 | £314.00 |
| EF 100mm f/2.8 USM Macro | £389.00 |
| EF 135mm f/2.0L USM | £719.00 |
| EF 180mm f/3.5 L USM Macro | £1,019.00 |
| EF 200mm f/2.8 L USM | £522.00 |
| EF 300mm f/2.8 L USM IS | £3,119.00 |
| EF 300mm f/4.0 L USM IS | £924.00 |
| EF 400mm f/2.8 L USM IS | £5,379.00 |
| EF 400mm f/4 DO USM IS | £2,949.00 |
| EF 500mm f/4.0 L USM IS | £4,399.00 |
| EF 600mm f/4.0 L USM IS | £5,859.00 |
| EF-S 10-22mm f/3.5-4.5 USM | £524.00 |
| EF 16-35mm f/2.8L USM | £1,019.00 |
| EF 17-40mm f/4.0L USM | £524.00* |
| EF-S 17-55mm f/2.8 IS USM New | £Phone |
| EF-S 17-85mm f/4-5.6 IS USM | £379.00* |
| EF-S 18-55mm f/3.5-5.6 Unboxed | £50.00 |
| EF 20-35mm f/3.5-4.5U | £284.00 |
| EF 24-70mm f/2.8L USM | £889.00 |
| EF 24-85mm f/3.5-4.5 USM | £249.00 |
| EF 24-105mm f/4.0L IS USM New | £689.00* |
| EF 28-105mm f/3.5-4.5 U/2 | £189.00 |
| EF 28-105mm f/4-5.6 Non USM | £109.99 |
| EF 28-105mm f/4-5.6 USM | £154.00 |
| EF 28-135mm f/3.5-5.6 USM IS | £335.00 |
| EF 28-200mm f/3.5-5.6 USM | £339.00 |
| EF 28-200mm F3.5-5.6 Non USM | £319.00 |
| EF 28-300mm f/3.5-5.6L IS USM | £1599.00 |
| EF 55-200mm f/4-5.6 II USM | £149.99* |
| EF 70-200mm f/2.8L IS USM | £1,299.00 |
| EF 70-200mm f/4.0L USM | £479.00 |
| EF 70-300mm f/4.5-5.6 IS USM New | £Phone |
| EF 70-300mm f/4.5-5.6 DO IS U | £839.00 |
| EF 75-300mm f/4.0-5.6 USM | £179.00* |
| EF 90-300mm f/4.5-5.6 Non USM | £119.00 |
| EF 90-300mm f/4.5-5.6 USM | £179.00 |
| EF 100-400mm f/4.5-5.6L U IS | £1,089.00* |
| EF 1.4x II extender / EF 2x II extender | £234.00 |

See our website for bundle pricing with filters

## Scanners

| | |
|---|---|
| CanoScan 4200F | £79.00* |
| CanoScan 8400F | £149.00* |
| CanoScan 9950F | £269.00* |

Please phone for the full range of scanners

## Flashguns & Accessories

| | |
|---|---|
| Speedlite 430EX | £179.99* |
| Speedlite 580EX | £289.99* |
| Speedlite 580EX + ST-E2 | £409.99* |
| Speedlite 580EX + Fast Battery Mains/Car Charger + 4x NiMH Batts | £314.99* |
| Macrolite MR-14EX | £329.00* |
| Macrolite MT-24EX | £589.00* |
| Speedlite Transmitter ST-E2 | £134.99* |
| Speedlite Bracket SB-E1 | £114.99* |
| Compact Battery Pack CP-E3 | £119.99* |

Please see website or call for flash cords, macrolite adaptors and other accessories

## Canon Selphy Printers

| | |
|---|---|
| SELPHY CP500 | £69.99 |
| SELPHY CP510 | £92.00 |
| SELPHY CP600 | £89.99 |
| SELPHY CP710 | £99.99 |
| SELPHY DS700 | £59.99 |
| SELPHY DS810 | £112.00 |

## Canon Pixma Printers

| | |
|---|---|
| Pixma IP 90 | £189.00 |
| Pixma IP 1600 | £49.00 |
| Pixma IP 2200 | £59.00 |
| Pixma IP 6210D | £79.00 |
| Pixma IP 4200 | £84.99 |
| Pixma IP 6220D NEW | £109.00 |
| Pixma IP 5200 | £119.00* |
| Pixma IP 5200R | £169.00 |
| Pixma IP 8500 | £212.99 |
| Pixma IX 4000 New | £Phone |
| Pixma IX 5000 New | £Phone |
| BJ i9950 | £379.99* |
| Pixma Pro 9000 New | £Phone |
| Pixma Pro 9500 New | £Phone |

## Canon Multifunction Printers

| | |
|---|---|
| Pixma MP 150 NEW | £59.00 |
| Pixma MP 170 | £79.00 |
| Pixma MP 450 | £119.00 |
| Pixma MP 500 | £159.00 |
| Pixma MP 530 New | £Phone |
| Pixma MP 780 | £222.99 |
| Pixma MP 800 | £232.99 |
| Pixma MP 800R NEW | £329.00 |
| Pixma MP 830 New | £Phone |

For discounted inks, and great deals on paper, please phone or visit our website

## Canon Lens Hoods

| | |
|---|---|
| EW 60B (for EF28-105mm f/4.0-5.6 USM and Non USM) | £17.99 |
| EW 60C (for EF28-80mm f3.5-5.6/2, U/4, U/5, EF28-90 f4.0-5.6 II, U/2, EF-S18-55mm f3.5-5.6) | £17.99 |
| ET 60 (for EF75-300mm f4.5-5.6/2, /3, USM/2, USM/3) | £17.99 |
| ES 62-AD (for EF50mm f1.8) | £17.99 |
| EW 63 (for EF28-105mm f3.5-5.6 USM, EF28mm f1.8U) | £17.99 |
| ET 64 (75-300mm f4.0-5.6 USM IS) | £27.49 |
| EW 65 (EF28mm f2.8, EF35mm f2.0) | £17.99 |
| ET 65/3 (EF85mm f1.8 USM, EF100mmf2.0 USM, EF100-300mm f4.5-5.6 USM, EF75-300mm f4.0-5.6, EF135mm f2.8 SF) | £17.99 |
| ET 65B (EF 70-300mm f/4-5.6 IS USM and EF 70-300mm f/4.5-5.6 DO IS USM) | £17.99 |
| ET 67 (EF100mm f2.8 Macro USM) | £24.99 |
| ES 71 (for EF50mm f1.4 USM) | £19.99 |
| EW73 II (EF24-85mm f3.5-4.5 USM) | £18.99 |
| EW 73B (EF-S 17-85mm f4.0-5.6 IS USM) | £19.99 |
| EW 75 II (EF20mm f2.8 USM, EF20-35mm f2.8L) | £42.99 |
| EW 75B II (for TSE 24mm L) | £8.99 |
| EW 78B II (EF28-135mm f3.5-5.6 USM IS) | £19.99 |
| EW 78C (EF35mm f1.4 L USM ) | £43.99 |
| EW 78D (for EF28-200mm f3.5-5.6, EF28-200mm f3.5-5.6 USM) | £17.99 |
| EW 83 (EF20-35mm f3.5-4.5 USM) | £19.99 |
| EW 83E (EF-S 10-22mm f3.5-4.5) | £24.99 |
| ET 83B II (for EF 200mm f2.8 L U) | £32.99 |
| ET 67B (for EF-S 60mm Macro) | £25.99 |

## Canon Lens Caps

| | |
|---|---|
| E52U 52mm Lens Cap | £5.39 |
| E58U 58mm Lens Cap | £5.39 |
| E67U 67mm Lens Cap | £5.39 |
| E72U 72mm Lens Cap | £6.19 |
| E77U 77mm Lens Cap | £5.39 |
| EF Rear Lens Cap | £2.65 |

## Canon Filters

| | |
|---|---|
| 52mm UV | £20.99 |
| 52mm Skylight | £20.99 |
| 52mm Regular | £20.99 |
| 52mm Circular Polariser | £79.99 |
| 58mm UV | £25.49 |
| 58mm Skylight | £25.49 |
| 58mm Regular | £26.49 |
| 58mm Circular Polariser | £89.49 |
| 67mm Regular | £32.99 |
| 72mm UV | £43.49 |
| 72mm Skylight | £43.49 |
| 72mm Regular | £43.49 |
| 72mm Circular Polariser | £124.99 |
| 77mm Regular | £49.99 |
| 77mm Circular Polariser | £157.49 |

## Lens Pouches

| | |
|---|---|
| LP 811(for EF 24mm f/2.8, EF2X, EF14X, EF25) | £21.99 |
| LP 814 (for short zooms) | £21.99 |
| LP 1014 (for short prime lenses) | £18.71 |
| LP 1016 (for 14mm f/2.8L, 135mm f/2.8, TSE90mm f/2.8,55-200USM) | £21.99 |
| LP 1022 (for 75-300 USM IS) | £32.99 |
| LP 1214 (for 24mm f1.4LU, 35mm f1.4LU, 20mm f2.8U) | £21.99 |
| LP 1219 (135mm f2.0 L U, 28-70mm f2.8L, 24-70mm f2.8 L U, 100mm f2.8 U) | £32.99 |
| LP 1222 (for 200mm f2.8 L U/2) | £27.99 |
| LP 1224 (for 70-200mm f4.0 L U) | £27.99 |
| LP 1319 (for 16-35mm f2.8 L U, 17-40mm f4.0 L USM) | £24.99 |

For LOW Prices on other Canon Accessories, please phone us or visit our website: www. parkcameras.com

## Canon Accessories

### Cases

| | |
|---|---|
| DCC-30 Soft Leather Case for IXUS i (10 only) | £5.00 |
| DCC-70 Soft Leather Case for IXUS 700, 750, 800 IS | £15.00* |
| DCC-80 Soft Case for Powershot A510, A520, A530, A540 | £10.00 |
| DCC-90 Soft Case for Powershot S2 IS, S3 IS | £10.00 |
| EH17L Semi Hard Case (20D) | £29.99 |
| EH18L Semi Hard Case (350D) | £34.99 |

### Batteries

| | |
|---|---|
| NB-2LH (S60, S70, EOS 350D) | £40.00* |
| NB-3L (Digital IXUS II, IXUS i, IXUS i5, IXUS 700) | £29.00 |
| BP-511A (Pro 1, EOS 20D, 10D, 300D, D60, D30, G1, G2, G3, G5) | £49.99 |

### Battery Grips

| | |
|---|---|
| NP-E3 (EOS 1D/ EOS 1DS) | £94.99* |
| BG-E4 (EOS 5D) | £149.00* |
| BG-E3 (EOS 350D) | £69.99* |
| BG-E3 + NB-2LH (350D) | £109.99* |
| BG-E2 (20D) | £130.00 |

### Remote Switches

| | |
|---|---|
| RS 80N3 (EOS D30, D60, 10D, 20D, 1D series) | £39.99 |
| Timer Remote Controller TC 80N3 (EOS D30, D60, 10D, 20D, 1D series) | £99.99 |
| Remote Switch RS 60E3 (for EOS 300D, 350D) | £23.88 |

### Telephoto lenses and Adaptors

| | |
|---|---|
| LA-DC58D (for G6) | £15.00 |
| WC-DC58N (for G3/G5/G6) | £79.99* |
| TC-DC58N (for G3/G5/G6) | £75.00* |
| LA-DC10 (for S60, S70) | £20.00 |
| TC-DC10 (for S60, S70) | £99.00 |
| LA-DC20 (for S80) | £20.00 |
| WC-DC10 (for S80) | £99.00 |
| LA-DC58 (for G1, G2) | £14.99 |
| WC-DC52 (for A10, A20, A30, A40, A60, A70, A75, A80, A95, A510, A520) | £72.00 |
| TC-DC52 (for A30, A40, A60, A70, A75, A85) | £85.00 |
| TC-DC52A (for A80, A95, A510, A520) | £75.00 |
| LA-DC52F (for A510, A520) | £15.00 |
| LA-DC52B (for A30, A40) | £15.00 |
| LA-DC52C (A60, A70, A75, A85) | £15.00 |
| LA-DC52D (for A80, A95) | £15.00 |
| LAH-DC10 (lens adaptor/ hood set for S1 IS) (8 only) | £10.00 |
| WC-DC58A (for S2 IS) | £99.00 |
| TC-DC58B (for S2 IS) | £99.00 |
| LAH-DC20 (lens adaptor/ hood set for S2 IS) | £25.00 |

### Underwater Housings

| | |
|---|---|
| AW-DC40 All Weather Case for IXUS I Zoom | £99.00 |
| WP-DC1 (for Powershot S80) | £149.00 |
| WP-DC10 (for IXUS II and IIs) | £149.00 |
| WP-DC30 (for A75, A85) (1) | £99.00 |
| WP-DC50 (A95) (1 only) | £109.00 |
| WP-DC60 (for A510, A520) (1) | £109.00 |
| WP-DC70 (for IXUS 700) | £149.00 |
| WP-DC80 (for IXUS 750) | £149.00 |
| WP-DC90 (for A610, A620) | £149.00 |
| WP-DC400 (for A100, A200) (1) | £99.00 |
| WP-DC500 (for IXUS 330) (2) | £49.99 |

### Mains Adaptors

| | |
|---|---|
| ACK E2 (EOS 20D, 10D, 300D) | £59.99 |
| ACK DC10 (IXUS 40/50) | £45.00 |
| ACK DC20 (350D/PShot S80) | £45.00 |
| ACK DC30 (IXUS 800 IS) | £45.00 |
| ACK 500 (IXUS 430/500) | £45.00 |
| ACK 600 (A-series copacts) | £40.00 |
| ACK 800 (A510, A520) | £40.00 |
| ACK 900 (IXUS II/IXUS IIs) | £45.00 |
| CA-560 (G1, G2, G3, G5) | £59.99 |

For LOW Prices on other Canon Accessories, please phone us or visit our website: www. parkcameras.com

YYePG Proudly Presents, Thx for Support

All prices include VAT @ 17.5% Opening times Mon-Sat 8:30-5:30pm. We accept Visa, Mastercard, Switch/Maestro. Figures in Brackets indicates stock level held at unrepeatable prices at time of going to print. Prices correct at time of going to press; check website for latest prices. All products are UK stock. E&OE. * = Please mention "What Digital Camera" magazine for this special price

next working day delivery FREE Delivery on digital cameras/ printers/ scanners to UK mainland

Memory cards £3.99
Lenses £6.99
Heavy Items £9.99

115 Lower Church Road
**BURGESS HILL**
West Sussex, RH15 9AA

16 The Broadway
**HAYWARDS HEATH**
West Sussex, RH16 3AL

# PARK CAMERAS

whether you visit our stores, call us or buy online, you can always be sure of a great deal and superb service
visit us online at
**www.parkcameras.com** or
**Tel: 08450 580 480**
**(calls charged at Local Rates)**

visit our showrooms, call or visit us online at: www.parkcameras.com

**Free Delivery** to UK Mainland on Cameras/ Printers/ Scanners!

NEW!!

# NIKON D200

NEW!!

## BETTER AVAILABILITY

Please phone or see our website for details

- 10.2 Mega Pixels • 5 frames per second
- Magnesium Alloy Body • 2.5" LCD Screen
- Instant power-up in just 0.15 seconds, with a shutter release time lag of a mere 50 milliseconds

**Our Price: £1189.00**

| | |
|---|---|
| D200 + 12-24mm f4 G DX | £1885.00 |
| D200 + 17-55mm f2.8 G DX | £2099.00 |
| D200 + 18-70mm f3.5-4.5 DX | £1385.00 |
| D200 + MB-D200 Grip | £1334.00 |

| | |
|---|---|
| SB R1 Speedlight Close-Up Kit | £339.99 |
| SB 800 Speedlight | £279.00 |
| Capture 4.4 Software | £110.00 |
| EN-EL3e Battery for D200 | £49.99 |

## Nikon D70s

- 6.1 megapixel
- 6.1 megapixel
- Powers up in 0.2 sec.
- 3 fps continuously up to 144 shots
- Extra large and bright 2.0-inch LCD screen
- New EN-EL3a delivers the required power to shoot up to 2,500 images on a single charge.

**Our Price £579.00***

lens sold separately Body SRP £699.99

| | | | |
|---|---|---|---|
| D70s + Sandisk 1GB | £626.00 | D70s + Sandisk 1GB + EN-EL3 | £666.00 |
| D70s + 18-70mm | £744.00 | D70s + 18-70mm + EN-EL3 | £784.00 |
| D70s + 18-70mm + SB 600 | £939.00 | | |

**Add a Spare ENEL3 Battery at the same time for only £44.00***

## Nikon D50 Silver/Black

- 6 Mega Pixels
- 2.5 fps
- Extra large 2.0" LCD Screen

**Our Price £349.99***

lens sold separately Body SRP £399.99

NEW LOW PRICE

| | |
|---|---|
| D50 + 18-55mm | £429.99* |
| D50 + 18-55mm + 512MB SD | £456.99 |
| D50 + 18-70mm | £509.99* |
| D50 + SB600 speedlite | £544.99 |

**Please phone for other low deals**

## Nikon Digital Cameras

| | |
|---|---|
| Coolpix S1 Silver | £159.99* |
| Coolpix S2 | £184.99* |
| Coolpix 7600 Silver | £169.99* |
| Coolpix S3 (1 only) | £209.99 |
| Coolpix S4 (10 only) | £249.99 |
| Coolpix P2 (4 Only) | £169.99 |
| Coolpix L4 Silver New | £Phone |
| Coolpix L2 Grey New | £189.99 |
| Coolpix P4 New | £299.99 |
| Coolpix S5 New | £269.99 |
| D2Hs | £2049.00* |
| D2X | £2799.00 |

## Nikon D2X Body

NOW IN STOCK!

- 12.4Mp CMOS Pro DSLR
- 5 fps
- i-TTL Flash Control

lens sold separately Body SRP £3499.99

**Our Price £2799.00**

| | |
|---|---|
| D2X+Capture 4.4 | £2899.00* |
| D2X+Capture 4.4 + 17-55mm f/2.8 | £3949.00* |
| D2X+Capture 4.4 + SB800 | £3279.00* |

**Please call or e-mail for a quote for your personal requirements**

## Coolpix S4

NEW

- 6.0 million pixels
- 10 x optical zoom
- Large 2.5" LCD display
- Swivelling body

SRP £329.99

**Our Price £249.99**

+ Fuji 256MB SD **£267.99**

## Nikon Batteries

| | |
|---|---|
| EN-EL1 (4800, 8700) | £39.99 |
| EN-EL2 (2500, 3500, SQ) (4 Only) | £29.99 |
| EN-EL3 (D100, D70, D70s) | £46.99* |
| 2 x EN-EL3 (D100, D70,D70s) | £90.00* |
| EN-EL3A (D70s) | £49.99 |
| EN-EL4 (D2H, D2X) | £89.99 |
| 2x EN-EL4 (D2H, D2X) | £149.99* |
| EN-EL5 (4200, 5200, 7900) | £29.99 |
| EN-EL6 (Coolwalker) | £59.99 |
| EN-EL7 (8400, 8800) | £39.99 |
| EN-EL7e with LED indicator | £49.99 |
| EN-EL8 (S1, S2) | £29.99 |
| EN-4 (D1X, D1H) | £89.99 |

## Nikon Converters

Phone or see our website to get correct converter & adaptor for your camera

| | |
|---|---|
| FC-E8 Fisheye converter | £219.99 |
| FC-E9 Fisheye converter (2) | £179.99* |
| WC-E68 0.68x Wide | £139.99 |
| WC-E75 0.75 Wide (for 8400) | £179.99 |
| WC-E80 0.8x Wide (5700, 8700) | £139.99 |
| WM-E80 0.8 Wide (8400, 8800 | £69.99 |
| TC-E15ED 1.5X (5400, 5700) | £139.99 |
| TC-E17ED Teleconverter | £269.99 |
| TC-E2 2X tele (1 Only) | £79.99 |
| TC-E3ED 3X tele (8400) | £199.99 |
| UR Step Rings/ Adaptors | from £9.99 |

## Filters

| | |
|---|---|
| FF-CP10 NC Filter (for 8400) | £19.99 |
| FF-CP10 CPL Filter (for 8400) | £45.99 |
| FF-CP10 ND4 Filter (for 8400) | £19.99 |
| FF-CP11 NC Filter (for 8800) | £19.99 |
| FF-CP11 CPL Filter (for 8800) | £45.99 |
| FF-CP11 ND4 Filter (for 8800) | £19.99 |

## Battery Grips

| | |
|---|---|
| MB-D100 Grip for D100 | £89.99* |
| MB-E5700 for 5700/8700 | £124.99 |
| MB-CP10 for 8400 | £124.99 |
| MB-CP11 for 8800 | £124.99 |

## Battery Chargers

| | |
|---|---|
| MH 15 (for F100) | £69.99* |
| MH16 Quick Charger (D1X) | £189.99* |
| MH17 Quick Charger (for EN-4) | £139.99* |
| MH18 (for EN-EL3) | £34.99 |
| MH19 Multi Charger | £189.99* |
| MH-53 (for 8700) | £24.99 |
| MH-53c Car Charger (for 8700) | £49.99 |
| MH-56 (for 8400, 8800) | £69.99* |
| MH-61 (for EN-EL5 battery) | £19.99 |
| MH-70 (for 2100, 3100) | £19.99 |

## Mains Adapters

| | |
|---|---|
| EH-4 (for D1X/ D1H) | £74.99 |
| EH-5 (for D100) | £74.99 |
| EH-6 (for D2H) | £74.99 |
| EH-21 (for 775, 4500, 5000, 5700) | £59.99 |
| EH-30 | £52.99 |
| EH-31 | £52.99 |
| EH-53 (for 4500, 5700, 8700) | £39.99 |
| EH-54 (for 8800) | £39.99 |
| EH-60 (for 2500, 3500) | £39.99 |
| EH-61 (for 2100, 3100) | £19.99 |
| EH-62A (for 4200, 5200) | £29.99 |
| EH-62B (for 2200, 3200) | £29.99 |
| EH-63 (for S1) | £Phone |

## Chargers

| | |
|---|---|
| MH16 Quick Charger | £189.99* |
| MH17 Quick Charger | £139.99* |
| MH18 (for EN-EL3 battery) | £34.99 |
| MH18a (for EN-EL3a battery) | £34.99 |
| MH19 Multi Battery Charger (for D100 and D1X/ D1H via optional cord MC-E2 @ £12.99 each) | £189.99* |
| MH21 Quick charger | £34.99 |
| MH-53 (for 4500, 5700, 8700) | £24.99 |
| MH-53c Car Charger (for 4500, 5700, 8700) | £49.99 |
| MH-56 (for 8400, 8800) | £69.99* |
| MH-60 Battery Charger (for EN-EL2 battery) | £24.99 |
| MH-61 Battery Charger (for EN-EL5 battery) | £19.99 |
| MH-70 Battery Charger (for 2100, 3100) | £19.99 |

## Lens Hoods and Caps

| | |
|---|---|
| HR-E5700 Lens Hood (for 5700) | £19.99 |
| HN-CP10 Lens Hood (for 5400) | £19.99 |
| HN-CP11 Lens Hood (for 8700) | £19.99 |
| HN-CP12 Lens Hood (for 8400) | £24.99 |
| HN-CP14 Lens Hood (for 8800) | £24.99 |
| HS-7 52mm Snap on Lens hood | £37.99 |
| LC-CP10 Lens Cap (for 5700) | £6.99 |
| LC-CP13 Lens Cap (for Coolpix) | £5.99 |
| LC-CP15 Lens Cap | £5.99 |
| LC-58 58m Snap on Lens Cap | £7.99 |
| LC-ER3 Rear Lens Cap | £5.99 |

For SLR Lens Hoods please phone or see www.parkcameras.co.uk

## Nikon Cases

| | |
|---|---|
| Leather Case for 5000/5400/8400 | £24.99* |
| Leather Case for 5700/8700/8800 | £29.99 |
| Leather Case for 4200/5200/7900 | £17.99* |
| Leather Case for 4800 | £18.99* |
| Leather Case for S1/S2 | £19.99* |
| CF-D200 Soft Case for D200 | £49.99 |
| CF-D70 Soft Case for D70/D70s | £34.99 |
| CF-D50 Semi Soft Case for D50 | £39.99 |
| Digital SLR System Bag | £19.99 |

## Underwater Housings

| | |
|---|---|
| WP-CP2 (for 4200/ 5200) | £159.99* |
| WP-CP3 (for 4600/ 5600) | £139.99* |
| WP-CP4 (for 5900/ 7900) | £139.99* |
| WP-CP5 (for S1) | £139.99* |

## Cables

| | |
|---|---|
| SC-D1 IEEE 1394 | £37.99 |
| SC-EW3 Serial Cable | £15.99 |
| UC-E1 USB Cable | £15.99 |
| UC-E6 USB Cable | £15.99 |
| EC-900 Video Cable | £15.99 |

## Remotes

| | |
|---|---|
| MC-EU1 Remote Cord (8700) | £89.99* |
| MC-30 Remote Cord (for D2x) | £55.99 |
| ML-L3 Remote (for D70, D70s) | £14.99 |

## Monitor Covers

| | |
|---|---|
| BM1 LCD Monitor Cover (D1X) | £5.99 |
| BM2 LCD Monitor Cover (D100) | £4.99 |
| BM3 LCD Monitor Cover (D2H) | £6.99 |
| BM4 LCD Monitor Cover (D70) | £6.99 |
| BM5 LCD Monitor Cover (D70s) | £6.99 |
| BM6 LCD Monitor Cover (D200) | £6.99 |

## Software

| | |
|---|---|
| Capture 4.4 Software | £119.99 |
| Capture NX Software New | £119.99 |
| Colour Efex Pro 2.0 Standard Edition 19 professional digital photographic filters for Nikon Capture 4 | £49.99 |
| Colour Efex Pro 2.0 Select Edition 45 professional digital photographic filters for Nikon Capture 4 | £79.99 |
| Colour Efex Pro 2.0 Complete Edition 75 professional digital photographic filters for Nikon Capture 4 | £149.99 |

## Other Accessories

| | |
|---|---|
| 30GB Coolwalker | £299.99* |
| WT1 Wireless Transmitter | £349.99 |
| WT-2 Wireless Transmitter | £549.99 |
| Silver Compact Flash Card Case | £3.99 |
| D200 Strap | £19.99 |
| MS-D70 (battery holder for CR2 batts. for D70/D70s) | £9.99 |
| MS-D100 (battery holder for MB-D100 batts. for D100) | £19.99 |
| Eyepeice Adapter - Square to round | £3.99 |
| Spare USB Cables | From £15.99 |

## Binoculars

| | |
|---|---|
| 8x25 DCF Sportstar IV Black | £89.99* |
| 7x50 CF WP IF COMPASS | £319.99 |
| 8 x 25 CF TRAVELITE V (1) | £89.99 |
| 9 x 25 CF TRAVELITE V (2) | £99.99 |
| 8 x 25 CF TRAVELITE V WP | £98.99* |
| 8 x 32 HGL DCF WP | £583.99 |
| 8 x 32 HGL DCF WP | £799.99 |
| 9 x 25 CF TRAVELITE EX WP | £109.99 |
| 10 x 25 CF TRAVELITE V | £109.99 |
| 10 x 25 CF TRAVELITE EX WP | £119.99 |
| 12 x 25 CF TRAVELITE EX WP | £125.99 |
| 8 - 24 x 25 TRAVELITE ZOOM | £139.99* |
| 7 x 50 CF ACTION VI | £79.99 |
| 7 x 35 ACTION EX | £116.99* |
| 7 x 50 CF ACTION EX | £129.99 |
| 7x - 15x 35 CF ACTION VI | £189.99 |
| 8x40 CF ACTION EX | £129.99 |
| 10 x 50 ACTION EX | £149.99 |
| 12 x 50 ACTION EX | £169.99 |
| 8 x 25 HG DCF | £269.99 |
| 8 x 42 DCF WP Monarch | £249.99 |
| 10 x 42 DCF WP Monarch | £264.99 |
| 10 x 42 SE CF | £479.99 |
| 12 x 50 CF | £519.99 |
| 10 x 25 HGL DCF | £299.99 |
| 8 x 25 WP/ RA II | £179.99 |

## Field Scopes / Spotting Scopes

| | |
|---|---|
| Field Scope III Body Straight | £359.99 |
| Field Scope III Body Angled | £399.99 |
| Field Scope ED III Body Straight | £559.00 |
| Field Scope ED III Body Angled | £599.00 |
| Field Scope ED 82 Straight Body | £699.00 |
| Field Scope ED 82 Angled Body | £699.00 |
| Spotting Scope RA II Straight | £160.00 |
| Spotting Scope RA II Angled | £199.00 |
| Spotting Scope 80 A Angled | £239.00 |
| Spotting Scope XL II 16-47x80 | £349.99 |
| 20x Eyepiece RA II | £39.99 |
| 25x/33x wide eyepiece | £64.99 |
| 20-60x/25-75x MCII zoom | £229.00 |
| Fieldscope Digital SLR Camera Attachment | |
| FSA-L1 | £269.99 |

## Nikon Coolpix P3

NEW!

- 8.1 million pixels
- 3.5 x optical zoom
- 2.5" LCD Screen
- Vibration Reduction
- Wi-Fi Capability
- Compact and easy to use

SRP £349.99

**Our Price £319.99**

+ Fuji 256MB SD **£337.99**

## Nikon Coolpix L3

NEW!

- 5.1 million pixels
- 3 x optical zoom
- 2.0" LCD Screen
- Compact and easy to use

SRP £169.99

**Our Price £Phone**

+ Fuji 256MB SD **£Phone**

## Nikon Coolpix S6

NEW!

- 6.0 million pixels
- 3 x optical zoom
- 3.0" LCD Screen
- Wireless Technology
- Slim Design

SRP £349.99

**Our Price £Phone**

+ Fuji 256MB SD **£Phone**

## Nikon Flashguns

| | |
|---|---|
| Speedlight SB800 | £279.00* |
| Speedlight SB600 | £199.99* |
| SB 27 Speedlight | £199.99* |
| SB R200 Speedlight | £Phone |
| SB R1 Close-Up Remote Kit | £339.99 |
| SB R1C1 Commander Kit | £499.99 |
| SL1 Macro Cool-Light | £59.99* |
| SC18 TTL Multi Flash Sync | £42.50* |
| SC19 TTL Multi Flash Sync | £47.50* |
| SC28 TTL Remote Cord/SB800 | £47.50* |
| AS15 Hot Shoe Adaptor | £18.99 |

## SB R200 Speedlight

NEW!

- Compatible with Nikon Creative Lighting System
- For Remote use only
- Adjustable head positioning
- AS-20 stand for remote lighting

SRP £169.99

**Our Price £Phone**

## Speedlight Close-Up Remote Kit SB-R1

NEW!

- Practical Close-up lighting kit
- Includes 2 SB-R200 Remote Speedlight units
- SW-12 diffuser for frontal lighting effects

SRP £399.99

**Our Price £339.99***

## Nikon Lenses

| | |
|---|---|
| AF-G 10.5mm f/2.8G Fisheye | £467.00 |
| AF-D 14mm f/2.8 ED | £1089.00 |
| AF-D 20mm f/2.8 | £499.99 |
| AF-D 28mm f/2.8 | £195.00 |
| AF-D 50mm f/1.4 | £219.99 |
| AF-D 50mm f/1.8 | £99.99 |
| AF-D 60mm f/2.8 Micro | £359.00 |
| AF-D 85mm f/1.8 | £339.00 |
| AF-D 85mm f/1.4 | £799.99 |
| AF-D 105mm f/2.8D Micro | £649.99 |
| AF-S VR 105mm f/2.8G IF-ED New | £Phone |
| AF-D 180mm f/2.8 IF ED | £599.00 |
| AF-S 200mm f/2 IF-ED VR | £2649.00 |
| AF-S 300mm f/2.8G IF-ED VR | £3199.00 |
| AF-S 500mm f/4 IF-ED II Black | £5,249.00 |
| AF-S 12-24mm f/4G DX IF ED | £709.99 |
| AF-S 17-55mm f/2.8G IF-ED DX | £949.00 |
| AF-D 18-35mm f/3.5-4.5 | £335.00 |
| AF-S 18-55mm f/3.5-5.6 DX | £99.99 |
| AF-S 18-70mm f/3.5-4.5 DX | £165.00 |
| AF-S 18-200mm f/3.5-5.6 ED-IF VR | £509.00 |
| AF-D 24-85mm f/2.8-4 IF | £435.00 |
| AF-S 24-85mm f/3.5-4.5G ED | £149.00 |
| AF-S 24-120mm f/3.5-5.6G IF ED VR | £419.00 |
| AF-S 28-70mm f/2.8D IF ED | £1,189.00 |
| AF-G 28-100mm f/3.5-5.6G Black | £89.00 |
| AF-D 28-105mm f/3.5-4.5 IF | £309.99 |
| AF-G 28-200mm f/3.5-5.6 IF Silver | £179.00 |
| AF-G 28-200mm f/3.5-5.6 IF Black | £250.00 |
| AF-D 35-70mm f/2.8 | £549.99 |
| AF-S 55-200mm f/4-5.6 DX Black | £149.99 |
| AF-S 55-200mm f/4-5.6 DX Silver | £149.99 |
| AF-D 70-180mm f/4.5-5.6 ED Micro | £850.00 |
| AF-D 70-300mm f/4-5.6 ED | £279.99 |
| AF-G 70-300mm f4-5.6 Black | £139.00 |
| AF-S 70-200mm f/2.8G IF ED VR | £1,199.00 |
| AF-D 80-400mm F4.5-5.6 VR | £1,069.00 |
| AF-S 200-400mm f/4G IF-ED VR | £4,299.00 |

## Coolscan V ED

- 4000dpi
- High-speed USB 2.0 interface
- Fast 38-second scanning

SRP £549.99

**Our Price £428.00**

## LS 9000 ED

- Multiple film formats (120/220, 35mm, etc.)
- 4,000 dpi

SRP £2499.99

**Special AP Price**

**£1899.99**

## Coolscan 5000 ED

- 4,000 dpi
- Nikkor ED lens
- Amazingly fast 20-second scanning

SRP £1099.99

**Our Price £699.00***

## Nikon Scanner Accessories

| | |
|---|---|
| SF-210 Slide Feeder | £499.99 |
| SA30 Roll Film Adaptor | £669.99* |
| FH-G1 Medical Slide Holder | £219.99 |
| IA20 IX240 APS Adaptor | £159.99 |
| FH-869G 120/220 | £299.99 |

**See our Website for a range of Used Nikon Digital Cameras and Accessories or call our Haywards Heath Branch on 01444 412 181**

# NIKON PRO DEALER

• Superb Service • Low prices • Best Availability

PARK CAMERAS recommend SanDisk® Extreme III

Don't just take our word for it - TIPA (Europe's Highest Prize For Best Photo Products) Awarded the Extreme III the Best 2005 Imaging Storage Product

***Here's why:*** • Extremely Fast Transfer Rate - 20MB per Second (133x speed) • Works between -25 and +85°C • 10 Year Warranty • Extremely Reliable

### COMPACT FLASH

| | | | |
|---|---|---|---|
| SanDisk 128Mb | £12.00* | SanDisk 1GB EXTREME III | £60.00* |
| SanDisk 256Mb | £20.00* | SanDisk 2GB ULTRA II | £85.00 |
| SanDisk 512Mb | £28.00* | SanDisk 2GB EXTREME III | £90.00* |
| SanDisk 512MB ULTRA II | £33.00 | SanDisk 4GB ULTRA II | £170.00 |
| SanDisk 1GB | £47.00 | SanDisk 4GB EXTREME III | £175.00 |
| SanDisk 1GB ULTRA II | £55.00 | SanDisk 8GB EXTREME III | £Phone |

### MEMORY STICK

Full size & Duo

| | |
|---|---|
| SanDisk 256MB Pro | £22.00 |
| SanDisk 512MB Pro | £36.00 |
| SanDisk 1GB Pro | £53.00 |
| SanDisk 1GB Extreme III | £74.00 |

### SECURE DIGITAL

| | |
|---|---|
| SanDisk 512MB | £27.00 |
| SanDisk 512MB Ultra II | £34.00* |
| SanDisk 1GB SPECIAL | £47.00* |
| SanDisk 1GB Extreme III | £65.00* |
| SanDisk 2GB Ultra II | £90.00* |

| | |
|---|---|
| Sandisk USB 2.0 CF/ Microdrive Reader | £19.99 |
| Sandisk USB 2.0 5-in-1 Card Reader | £19.99 |
| Sandisk USB 2.0 12 in 1 Card Reader (for C/F, M/drive, M/S, M/S Pro, M/S Duo, M/S Duo Pro, SD, Mini SD, MMC,RS-MMC, Smart Media, xD) | £27.99 |

YYePG Proudly Presents, Thx for Support

All prices include VAT @ 17.5% Opening times Mon-Sat 8:30-5:30pm. We accept Visa, Mastercard, Switch/Maestro. Figures in Brackets indicates stock level held at unrepeatable prices at time of going to print. Prices correct at time of going to press; check website for latest prices. All products are UK stock. E&OE. * = Please mention "What Digital Camera" magazine for this special price

next working day delivery FREE Delivery on digital cameras/ printers/ scanners to UK mainland

Memory cards £3.99
Lenses £6.99
Heavy Items £9.99

115 Lower Church Road
**BURGESS HILL**
West Sussex, RH15 9AA

16 The Broadway
**HAYWARDS HEATH**
West Sussex, RH16 3AL

# PARK CAMERAS

whether you visit our stores, call us or buy online, you can always be sure of a great deal and superb service
visit us online at
**www.parkcameras.com** or
**Tel: 08450 580 480**
**(calls charged at Local Rates)**

visit our showrooms, call or visit us online at: www.parkcameras.com

**Free Delivery** to UK Mainland on Cameras/ Printers/ Scanners!

## FUJIFILM Finepix A500

NEW!

- 5.1 million pixels
- 3x optical zoom
- 1.8" LCD Screen
- 12mm internal memory

SRP £144.99

**Our Price £Phone**

+ 256mb XD Card **£Phone**

## SUPURB VALUE!! FUJIFILM S20 Pro

SRP £579.99

4th G CCD delivering 6.03 million recorded pixels
• 6x optical zoom lens • Full manual control

**WDC Special Offer £199.99***

**HYPER UTILITY HS-V2 SOFTWARE** for S20/S3/S7000: SRP £149.99 **OUR PRICE £19.99!**

## OLYMPUS E-330

NEW!

Body SRP £829.99

- 7.5 Million live MOS Sensor
- SuperSonic Wave Filter for dust reduction
- Dual Slot for CF and xD-Picture Cards
- Built in flash

| | |
|---|---|
| E-330 | £789.99 |
| E-330 + 14-45mm | £819.99 |
| E-330 + 14-45mm + 35mm f/3.5 Macro | £899.98 |
| E-330 + 14-45mm + 40-150mm | £899.98 |
| E-330 + 14-45mm + 40-150mm+Sandisk 1GB Extreme III Compact Flash | £959.98 |

For other deals, please phone / see web

## Sony DSC W7

- 7.2 million pixels
- 2.5" LCD screen
- 3 x optical zoom
- Carl Zeiss® Vario-Tessar® Lens

SRP £299.99

**Our Price £189.99***

DSCW7 + Sony 256MB Pro + DPP FP30 Printer **£259.98***

## Sony DSC T9

- 6.0 million pixels
- 2.5" LCD screen
- 3 x optical zoom
- ultra-slim design 5/8" thin

SRP £329.99

**Our Price £279.99***

DSC T9 + 256MB Duo Pro Memory Stick **£306.99***

## FUJIFILM Finepix V10

NEW!

- 5.1 million pixels
- 3.4x optical zoom
- 3.0" LCD screen
- Ultra-quick response times

SRP £259.99

**Our Price £Phone**

+ 256MB x-D Card + Fuji leather case **£249.99***

## Other Fujifilm Digital Cameras

| | |
|---|---|
| Finepix A400 NEW | £99.99 |
| Finepix A600 NEW | £Phone |
| Finepix S5600 + Case + Batts | £249.99 |
| Finepix E500 Kit | £159.99 |
| Finepix Z1 Silver | £209.99 |
| Finepix Z1 Black | £209.99 |
| Finepix F650 Zoom NEW | £Phone |
| Finepix F10 | £189.99 |
| Finepix F11 NEW | £259.99 |
| Finepix F30 NEW | £Phone |
| Finepix S9500 Zoom | £LOW |
| Finepix S20 Pro | £199.99 |
| Finepix S3 Pro Body | £989.99 |

## OLYMPUS MJU Digital 700

NEW!

SRP £229.99

- 7.1 million pixels
- 3 x optical zoom
- Weather resistant metal body
- 2.5" LCD Screen

**Our Price £199.99**

+ 256mb x-D Card **£226.99**

| | |
|---|---|
| FE-115 New | £99.99 |
| FE-130 New | £124.99 |
| FE-140 New | £149.99 |
| FE-150 New | £139.99 |
| MJU Mini Digital S | £159.99 |
| MJU Digital 600 Silver or Blue | £159.99 |
| MJU Digital 720 SW available in Silver, Blue or Pink New | £259.99 |
| MJU Digital 800 Silver or Blue | £279.00 |
| MJU Digital 810 New | £279.99 |
| SP-320 New | £189.99 |
| SP-350 | £249.99 |
| SP-500 Ultra Zoom | £209.99 |
| E-500 + 14-45mm Lens | £499.99 |

## SONY DSC W50

NEW!

- 6.0 million pixels
- 3 x optical zoom
- 2.5" LCD Screen
- 32MB internal Memory
- Compact and easy to use

SRP £199.99

**Our Price £Phone**

DSC W50 + 256MB Duo Pro Memory Stick **£Phone**

## Other Sony Cameras

| | |
|---|---|
| DSC S40 (5 only) | £99.99 |
| DSC S600 | £149.99 |
| DSC S90 (3 only) | £149.99 |
| DSC P200S Silver | £229.99 |
| DSC W15 | £169.99 |
| DSC W7 | £189.99 |
| DSC W17 | £199.99* |
| DSC W70/W100 | £Phone |
| DSC T5 Silver | £214.99 |
| DSC T7 Silver | £269.99 |
| DSC T9 Silver | £279.99 |
| DSC N1 | £319.99 |
| DSC M2 | £329.99 |
| DSC H2 New | £Phone |
| DSC R1 | £559.00 |

New Cameras Expected Soon Phone for price and latest new range

## Casio Exilim S500

- 5.0 million pixels
- 3x optical zoom
- MPEG4

SRP £299.99

**Our Price £169.99***

+ 256MB SD Card **£197.99***

## Other Casio Digital Cameras

| | |
|---|---|
| Exilim EX Z500 Silver | £149.99* |
| Exilim EX S600 - Available in; Silver, Blue or Orange New | £234.99 |
| Exilim EX Z60 - Available in; Silver, Black or Red New | £Phone |
| Exilim EX Z850 Silver New | £289.99 |

For LOW Prices on Casio accessories, please phone or visit our website: www.parkcameras.com

Exilim Cleaning Kit - only £2.99 when bought with camera!

## Easyshare V570

SRP £269.99

- 5.0 million pixels
- Ultra wide-angle and 5X optical zoom range
- On-camera panorama stitch mode

**Our Price £239.99**

Other New Digital Cameras from Kodak

- Easyshare C663
- Easyshare z650
- EasyShare V603
- EasyShare Z612

## Other Kodak Digital Cameras

| | |
|---|---|
| C300 + Printer Dock (2 only) | £89.99* |
| C310 | £74.99 |
| C310 + Printer Dock (12 only) | £94.99 |
| C330 | £99.99 |
| C533 NEW | £Phone |
| C643 NEW | £Phone |
| C663 | £169.99 |
| Z740 + Printer Dock (4 only) | £189.99 |
| V550 + Docking station (11 only) | £184.99* |
| V550 + Printer Dock | £234.98 |
| V570 | £239.99 |
| P850 (12 only) | £274.99 |
| P880 | £339.99 |

## Epson Printers

| | |
|---|---|
| Photo PictureMate 100 | £Phone |
| Photo PictureMate 500 | £Phone |
| Stylus Photo R220 | £69.00 |
| Stylus Photo R240 | £95.00* |
| Stylus Photo R340 | £129.00 |
| Stylus Photo R800 | £232.00* |
| Stylus Photo R1800 | £342.00 |
| Stylus Photo R2400 | £579.00 |
| Stylus Pro 4000 | £1769.99 |

USB Printer Lead - Normally £14.99 Only £7.00 if bought with a printer

## Epson Scanners

| | |
|---|---|
| Perfection 3490 Photo | £79.00 |
| Perfection 3590 Photo | £99.00 |
| Perfection 4490 Photo | £194.00 |
| Perfection 4990 Photo | £334.00* |
| V700/V750 NEW | £Phone |

### Epson Multifunctions

| | |
|---|---|
| Stylus Photo RX520 | £129.00* |
| Stylus Photo RX620 | £169.00 |
| Stylus Photo RX640 | £229.00 |
| Stylus Photo RX700 | £269.00 |

## PENTAX Optio T10

NEW!

- 6.0 million pixels
- 3 x optical zoom
- 3.0" LCD Touch Screen
- Ultra-slim, stylish design

SRP £299.99

**Our Price £Phone**

## PENTAX Optio E10

NEW!

- 6.0 million pixels
- 3 x optical zoom
- 2.4" LCD Screen
- 10MB internal Memory
- Compact and easy to use

SRP TBC

**Our Price £Phone**

## RICOH

Expand Your Possibilities

| | |
|---|---|
| Caplio RR530 New | £Phone |
| Caplio RR630 New | £Phone |
| Caplio R4 Silver & Black New | £Phone |
| Caplio R30 Black New | £194.99 |
| Caplio GX8 | £279.99 |
| Caplio 400G | £329.99 |
| Caplio GR +Ricoh GR Case + Kodak 64mb SD Card | £394.99 |

## Ricoh Caplio R4

NEW!

- 6 million pixels
- 2.5" LCD screen
- 7.1 x optical zoom
- Slim, lightweight design

SRP £249.99

**Our Price £Phone**

+ SC-60 Leather Case + 256MB SD Card **£Phone**

## Epson P4000 80GB Viewer

- Superb 3.8" TFT screen
- CF/ SD Slots (others by adaptor)

SRP £499.00

**Our Price £434.99***

Epson P2000 - 40GB Photo Viewer **£309.99***

## Epson Picturemate 100

SRP £99.00

- Process your photos in the convenience of your home
- Easily view, select and print from 1.5" colour LCD screen

**Our Price £69.99***

+ Epson Picture Pack + USB Cable **£105.98***

## Other Pentax Digital Cameras

| | |
|---|---|
| Optio S60 | £159.99* |
| Optio E10 NEW | £159.99 |
| Optio WPi | £199.99 |
| Optio W10 NEW | £219.99 |
| Optio S5Z | £189.99 |
| Optio S6 | £209.99* |
| Optio SVi | £199.99 |
| *ist DL Black Digital SLR | £409.99 |

For LOW Prices on Pentax accessories, please phone or visit our website: www.parkcameras.com

## Lowepro

| Case | WAS | NOW |
|---|---|---|
| Stealth Reporter 300 AW | £99.00 | £59.00* |
| Stealth Reporter 400 AW | £119.00 | £59.00* |
| Stealth Reporter 500 AW | £129.00 | £79.00* |
| Stealth Reporter 650 AW | £149.00 | £69.00* |

Shoulder bags designed to withstand the elements with an All Weather cover, while providing quick access to lenses and digital accessories. Lightweight cases - Heavy on features and durability

## New lenses from Tamron

- SP AF 17-50mm f/2.8 XR Di II **£Phone**
- 28-200mm f/3.8-5.6 XR Di Asp IF Macro **£Phone**
- 70-300mm F/4-5.6 Di LD Macro **£Phone**

| | |
|---|---|
| SP AF 14mm f2.8 Aspherical (IF) | £799.99 |
| SP AF 90mm f/2.8 Di Macro 1:1 | £288.99 |
| SP AF 180mm f/3.5 Di Macro 1:1 | £548.99 |
| AF 300mm F/2.8 Aspherical (IF) | £1999.99 |
| SP AF 11-18mm f/4.5-5.6 Di-II LD | £379.99 |
| SP AF 17-35mm f/2.8-4 Di LD (IF) | £328.99 |
| AF 18-200mm f/3.5-6.3 XR Di-II | £269.99 |
| 19-35mm f/3.5-4.5 | £159.99 |
| AF 24-135mm F/3.5-5.6 AD (IF) | £319.99 |
| SP AF 28-75mm f/2.8 XR Di | £263.99 |
| AF 28-80mm F/3.5-5.6 Asp. | £59.99 |
| AF 28-105mm F/4-5.6 Asp. (IF) | £119.99 |
| AF 28-200mm f3.8-5.6 XR IF | £Phone |
| SP AF 28-300mm f/3.5-6.3 XR Di | £213.99 |
| AF 55-200mm F/4-5.6 Di II LD | £129.00 |
| AF 70-300mm f4-5.6 LD Macro | £99.99 |
| SP AF 200-500mm f/5-6.3 Di LD IF | £669.99 |

## See prices in red for low bundle prices with Sigma Multi Coated UV Filter

| | Lens Price | Price With Filter |
|---|---|---|
| Sigma AF 8mm f4 EX DG Circular Fisheye New | £499.99 | - |
| Sigma AF 14mm f2.8 Aspherical EX | £539.99 | - |
| Sigma AF 15mm f2.8 Diagonal Fisheye DG New | £389.99 | - |
| Sigma AF 20mm f1.8 Aspherical EX DG | £294.99 | £347.99 |
| Sigma 24mm f1.8 EX DG | £216.99 | £266.98 |
| Sigma 28mm f1.8 EX DG | £173.99 | £223.98 |
| Sigma AF 30mm f/1.4 EX DC HSM | £299.99 | £319.99 |
| Sigma AF 50mm f/2.8 EX DG Macro | £194.99 | £210.99 |
| Sigma AF 105mm f/2.8 EX DG Macro New | £289.99 | £306.99 |
| Sigma AF 150mm f/2.8 EX DG HSM Macro | £439.99 | £470.99 |
| Sigma 180mm f3.5 EX Macro DG | £464.99 | £499.98 |
| Sigma 300mm f2.8 APO EX DG HSM New | £2594.99 | - |
| Sigma 500mm f4.5 APO EX DG HSM New | £3794.99 | - |
| Sigma 800mm f5.6 APO EX DG HSM New | £3794.99 | - |
| Sigma AF 10-20mm f/4-5.6 EX DC HSM | £324.99 | £368.99 |
| Sigma AF 12-24mm f4.5-5.6 DG EX Aspherical HSM | £444.99 | - |
| Sigma AF 15-30mm f3.5-4.5 DG EX | £299.99 | - |
| Sigma AF 17-35mm f2.8-4 EX DG Aspherical | £309.99 | £353.99 |
| Sigma AF 17-70mm f2.8-4.5 DC Macro New | £Phone | £Phone |
| Sigma AF 18-50mm f/2.8 EX DC | £319.99 | £345.99 |
| Sigma AF 18-50mm f3.5-5.6 DC | £82.00 | £99.00 |
| Sigma AF 18-50mm f3.5-5.6 DC + Sigma AF 55-200mm f/4-5.6 DC (for Digital SLRs except EOS 1D, 1Ds) | £179.99 | £212.99 |
| Sigma AF 18-125mm f3.5-5.6 DC SLD | £194.99 | £214.99 |
| Sigma AF 18-200mm f3.5-6.3 DC | £254.99* | £274.99 |
| Sigma AF 20-40mm F2.8 EX DG Ashpherical | £262.99 | £315.99 |
| Sigma AF 24-60mm F2.8 DG EX | £286.99 | £330.99 |
| Sigma 24-70mm f3.5-5.6 HF | £89.99 | £112.98 |
| Sigma AF 24-70mm f2.8 Aspherical EX DG Macro | £294.99 | £349.99 |
| Sigma AF 24-135mm f2.8-4.5 Aspherical IF | £239.99 | £283.99 |
| Sigma 28-70mm f2.8 EX DG | £229.99 | £259.98 |
| Sigma AF 28-70mm f2.8-4 Aspherical DG | £69.90* | £86.99 |
| Sigma 28-105mm f2.8-4 | £152.99 | £187.98 |
| Sigma 28-105mm f2.8-4 DG New | £169.99 | £192.98 |
| Sigma 28-105mm 3.8-5.6 UCIII IF | £99.99 | £122.98 |
| Sigma AF 28-135mm f3.8-5.6 IF Aspherical Macro | £104.99 | £124.99 |
| Sigma AF 28-200mm f3.5-5.6 IF Aspherical DG Macro | £179.99 | £199.99 |
| Sigma AF 28-300mm f3.5-6.3 DG Macro | £189.99 | £209.99 |
| Sigma AF 50-500mm f4-6.3 APO EX DG HSM New | £719.99 | £781.99 |
| Sigma AF 55-200mm f/4-5.6 DC | £107.99 | £123.99 |
| Sigma AF 70-200mm f2.8 APO EX DG HSM New | £599.99 | £643.99 |
| Sigma AF 70-300mm f4-5.6 DG Macro | £109.99 | £126.99 |
| Sigma AF 70-300mm f4-5.6 APO DG Macro Super | £159.99 | £176.99 |
| Sigma AF 80-400mm f4.5-5.6 EX DG APO OS New | £839.99 | £883.99 |
| Sigma 100-300mm f4 EX IF DG APO New | £899.99 | £959.98 |
| Sigma 120-300mm f2.8 EX APO DG HSM New | £1679.99 | £1799.98 |
| Sigma 135-400mm f4.5-5.6 APO DG New | £499.90 | £549.89 |
| Sigma 170-500mm f5-6.3 APO DG New | £549.99 | £619.98 |
| Sigma 300-800mm f5.6 EX DG APO HSM New | £4498.99 | - |
| 2x APO EX DG teleconverter | £179.99 | - |

### New lenses from Sigma

- 17-70mm f/2.8-4.5 DC Macro **£Phone**
- 70-200mm f/2.8 EX DG APO Macro HSM **£Phone**
- 5 EX lenses with Four - Thirds mounts **£Phone**

**New Product Now In:** Sigma Micro Fibre Lens Cloth 31x31cm. **Our Price £5.99 or £4.99 when bought with any Sigma Lens**

## HP Photosmart 422 Camera + Printer Bundle

**HP M415 Camera**
- 5.2 Mega Pixels

**HP Photosmart 420 Printer**
- Photolab quality prints - both standard 6x4" and panorama size

Seperate Selling price £249.99

**SAVE OVER £120.00! when you buy the HP Photosmart 422 portable Photo Studio**

**£129.99***

## New Digital Cameras from HP

| | |
|---|---|
| Photosmart E327 | £Phone |
| Photosmart M527 | £Phone |
| Photosmart E525 | £Phone |
| Photosmart R727 | £Phone |

Phone/See web for prices

## HP Photosmart P335

- Up to 4800 x 1200 optimized dpi
- 60-second printing
- 1.5" colour LCD
- Direct photo printing

LESS THAN HALF PRICE!

**Our Price £49.99***

was £149.99

+ USB Cable + HP 343 Photo Value Pack (100 sheets 6x4" paper & includes ink cartridge) **£79.98***

## Other HP Digital Cameras

| | |
|---|---|
| Photosmart M22 (3) | £64.99 |
| Photosmart M22 + HP Photosmart 335 Printer | £119.98 |
| Photosmart 422 Portable Photo Studio Includes Photosmart M415 camera and 420 printer dock! | £129.99 |
| Photosmart M517 | £120.00 |
| Photosmart R817 | £155.99* |
| Photosmart R818 | £189.99* |
| Photosmart R818 + HP Scuba Case | £239.98 |
| Photosmart R818 + 335 Printer | £369.98 |

## HP Scanjet 4890

SRP £199.99

- 4800 x 9600 dpi
- 48-bit
- 35 mm film strips, mounted 35 mm slides, photos up to full bed size, medium format film (120 or 220 roll film), 4 x 5" film

**Now Only £149.99***

## We also stock a wide range of other products from the following:

Adobe · Apacer · CRUMPLER · HOYA · Kenko · cokin · Manfrotto · Metz · tamrac No One Carries It Off Better

We monitor our prices daily so please call or see www.parkcameras.com for latest low prices

| Description | WAS | NOW |
|---|---|---|
| **CANON** | | |
| SC PS300 Soft Case (IXUS 500)(1) | £18.00 | £10.00 |
| SC PS600 Soft Case (A series) (18) | £18.00 | £10.00 |
| SC PS700 Soft Case (for G2) (1) | £30.00 | £10.00 |
| SC-DC40 Soft Case for G6 | £18.00 | £5.00 |
| DCC-40 Soft Case (for A95) | £15.00 | £5.00 |
| DCC-80 Soft Case for A5-- series | £19.99 | £10.00 |
| DCC-90 Soft Case for S2 IS/ S3 IS | £19.99 | £15.00 |
| DCC-200 Soft Case for IXUS I | £19.99 | £10.00 |
| WP DC30 Waterproof Case (1) | £149.00 | £99.00 |
| WP DC400 Waterproof Case (1) | £149.00 | £79.00 |
| WP DC500 Waterproof Case (2) | £149.00 | £49.99 |
| WC DC58N Wide Converter (3) | £109.00 | £79.99 |
| LAH-DC10 Lens Adapter (for S1 IS) | £25.00 | £10.00 |
| DC-20 DVD Camcorder | £599.00 | £479.00 |

| Description | WAS | NOW |
|---|---|---|
| **FUJIFILM** | | |
| Fuji 64mb xD Picture Card | £12.99 | £8.00 |
| Fuji 64MB Multi Media Card (1) | £29.99 | £10.00 |
| Fuji 128mb Multi Media Card (2) | £49.99 | £20.00 |
| Cameramate USB CF & SM Reader | £67.99 | £5.00 |
| NP 100 Rechargeable Battery (5) | £39.99 | £19.99 |
| NP-120 Rechargeable Battery | £49.99 | £26.99 |
| Soft Case Finepix A series (4) | £14.99 | £6.99 |
| Soft Case for FinePix (5) | £14.99 | £5.00 |
| SC-FX304 Soft Case (3) | £19.99 | £9.99 |
| Soft Case for Finepix (4) | £14.99 | £10.00 |
| Soft Case for Finepix A345 | £14.99 | £7.99 |
| Soft Case for FinePix F10/F11 | £14.99 | £7.50 |
| HS V2 Version 2 Software (6) | £149.99 | £19.99 |
| 7x5 Glossy Premium 270gsm | £13.99 | £9.99 |

| Description | WAS | NOW |
|---|---|---|
| **NIKON** | | |
| EN-EL2 Battery for 2500, 3500, SQ(4) | £39.99 | £29.99 |
| SK-6A Power Bracket (1) | £249.99 | £189.99 |
| Leather Case (5700/ 8700/ 8800) (3) | £29.99 | £14.99 |
| Silver Compact Flash Card Case | £14.99 | £3.99 |
| FC-E9 Fisheye Converter (2) | £249.99 | £179.99 |
| SC-D1 IEEE 1394 Cable(2) | £37.99 | £24.99 |
| SK-E900 Flash Bracket (2) | £64.99 | £29.99 |
| **OLYMPUS** | | |
| Leather Case for 310/370/470 (25) | £24.99 | £5.00 |
| Leather Case for SP310 and SP350 | £29.99 | £14.99 |
| Leather Case for C-70/ MJU 500 | £19.99 | £9.99 |
| MJU Neck Strap | £14.99 | £4.99 |
| PT-023 Underwater Case C-8080(1) | £224.99 | £189.99 |
| PFL-01 Underwater/Case (FL20) (1) | £199.99 | £149.99 |

| Description | WAS | NOW |
|---|---|---|
| **PENTAX** | | |
| 6.5x21 Papilio | £99.99 | £79.99 |
| 8.5x21 Papilio | £109.99 | £84.99 |
| 8x36 DCF HS | £229.99 | £159.99 |
| 10x36 DCF HS (3) | £249.99 | £179.99 |
| **SONY** | | |
| MSH 64MB High Speed M/Stick (1) | £18.99 | £12.00 |
| NP FC11 (for V1, P8, P10) | £54.99 | £39.99 |
| LCJ VHA Leather Jacket Case for V3 | £49.99 | £19.99 |
| LCM SX (case for S75/85) (1) | £39.99 | £19.99 |
| LCS THA Leather Case for DSC T1 | £44.99 | £29.99 |
| MZ NH1 Hi-MD Minidisc Walkman | £299.99 | £149.99 |
| MZ N520S MD Walkman (2) | £129.99 | £49.99 |
| MZ NH600S Mini Disk W/man | £149.99 | £89.99 |
| NW MS7 Walkman M/Stick Player | £299.99 | £59.99 |

CLEARANCE ITEMS

YYePG Proudly Presents, Thx for Support

All prices include VAT @ 17.5% Opening times Mon-Sat 8:30-5:30pm. We accept Visa, Mastercard, Switch/Maestro. Figures in Brackets indicates stock level held at unrepeatable prices at time of going to print. Prices correct at time of going to press; check website for latest prices. All products are UK stock. E&OE. * = Please mention "What Digital Camera" magazine for this special price

next working day delivery FREE Delivery on digital cameras/ printers/ scanners to UK mainland

Memory cards £3.99
Lenses £6.99
Heavy Items £9.99

# JACOBS DIGITAL PHOTO & VIDEO

# BUY NOW PAY LATER!
## ON ALL ITEMS OVER £200

*ONLY AVAILABLE ON ITEMS PURCHASED INSTORE. NOT AVAILABLE ON MAIL ORDER OR INTERNET. PLEASE ASK FOR FURTHER DETAILS.*

# www.jacobsdigital.co.uk

**PRICES EXCLUSIVE TO WHAT DIGITAL CAMERA READERS, PLEASE MENTION THIS ADVERT TO STAFF TO BE ELIGIBLE FOR THESE PRICES.**

KEY: Filter Size Required — 52mm | 58mm | 67mm | 72mm | 77mm | N/A

Ricoh Caplio R4 £249.99

INC. 2x 64MB xD CARDS
INC. LEATHER CASE
Fuji V10 OUTFIT £259.99

Nikon Coolpix S5 £279.99

Olympus Mju 810 £319.99

## Digital Compact Cameras

### Canon

| | | |
|---|---|---|
| Canon i Zoom Various Colours | £239.99 | 5.0 MP, 2.2x Zoom, SD |
| Canon Ixus 60 Ref: 199012 NEW! | £298.99 | 6.0 MP, 3x Zoom, SD |
| Canon Ixus 65 Ref: 189437 NEW! | £348.99 | 6.0 MP, 3x Zoom, SD |
| Canon Ixus 800 Ref: 187465 NEW! | £398.99 | 6.0 MP, 4x Zoom, SD |
| Canon Powershot A530 Ref: 186573 NEW! | £198.99 | 5.0 MP, 3x Zoom, SD |
| Canon Powershot A540 Ref: 186331 NEW! | £248.99 | 6.0 MP, 4x Zoom, SD |
| Canon Powershot A620 Ref: 11927 NEW! | £249.99 | 7.1 MP, 4x Zoom, SD |
| Canon Powershot S80 Ref: 11286 | £399.99 | 8.0 MP, 3.6x Zoom, SD |
| Canon Powershot S3 IS Ref: 186297 NEW! | £448.99 | 6.0 MP, 12x Zoom, SD |

### FUJIFILM

| | | |
|---|---|---|
| Fuji Finepix A400 Ref: 187315 NEW! | £99.99 | 4.1 MP, 3x Zoom, xD |
| Fuji Finepix A500 Ref: 187964 NEW! | £129.99 | 5.1 MP, 3x Zoom, xD |
| Fuji Finepix F11 Outfit Ref: 185623 | £279.99 | 6.0 MP, 3x Zoom, xD |
| Fuji Finepix Z1 Outfit Blk/ Silv | £219.99 | 5.0 MP, 3x Zoom, xD |
| Fuji Finepix S3100 Ref: 73461 | £99.99 | 4.0 MP, 6x Zoom, xD |
| Fuji Finepix S5600 Ref: 73449 | £223.99 | 5.0 MP, 10x Zoom, xD |
| Fuji Finepix S9500 Ref: 73459 | £479.99 | 9.0 MP, 10x Zoom, xD |

### Leica

| | | |
|---|---|---|
| Leica D-Lux 2 Ref: 49447 | £549.99 | 5.0 MP, 3.2x Zoom, SD |

### Nikon

| | | |
|---|---|---|
| Nikon Coolpix L4 Ref: 25159 NEW! | £129.99 | 4.0 MP, 3x Zoom, SD |
| Nikon Coolpix L3 Ref: 25270 NEW! | £169.99 | 5.1 MP, 3x Zoom, SD |
| Nikon Coolpix L2 Ref: 25302 NEW! | £199.99 | 6.0 MP, 3x Zoom,SD |
| Nikon Coolpix S6 Ref: 25341 NEW! | £349.99 | 6.0 MP, 3x Zoom, SD |
| Nikon Coolpix P3 Ref: 25284 NEW! | £349.99 | 8.1 MP, 3.5x Zoom, SD |

### OLYMPUS

| | | |
|---|---|---|
| Olympus FE-115 Ref: 179947 NEW! | £114.99 | 5.0 MP, 2.8x Zoom xD |
| Olympus FE-130 Ref: 179950 NEW! | £139.99 | 5.1 MP, 3x Zoom, xD |
| Olympus FE-140 Ref: 179952 NEW! | £169.99 | 6.0 MP, 3x Zoom, xD |
| Olympus SP-320 Ref: 179749 NEW! | £219.99 | 7.1 MP, 3x Zoom, xD |
| Olympus Mju 700 Blu/ Oran/ Silv NEW! | £219.99 | 7.1 MP, 3x Zoom, xD |
| Olympus Mju 720 Blu/ Copp/ Silv NEW! | £299.99 | 7.1 MP, 3x Zoom, xD |

### Panasonic

| | | |
|---|---|---|
| Panasonic Lumix DMC-FX8 Blk/ Silv | £199.99 | 5.0 MP, 3x Zoom, SD |

### Ricoh

| | | |
|---|---|---|
| Ricoh Caplio R3 Black Ref: 169179 | £219.99 | 5.0 MP, 7x Zoom, SD |
| Ricoh Caplio GRD Ref: 169558 | £359.99 | 8.3 MP, SD |
| Ricoh Caplio GX8 Ref: 34853 | £249.99 | 8.0 MP, 4x Zoom, SD |

### SONY

| | | |
|---|---|---|
| Sony DSC S40 + Printer Kit Ref: 157890 | £149.99 | 4.0 MP, 3x Zoom, M/S |
| Sony DSC S600 Ref: 183910 NEW! | £149.99 | 6.0 MP, 3x Zoom, M/S |
| Sony DSC W30 Ref: 180143 NEW! | £179.99 | 6.0 MP, 3x Zoom, M/S |
| Sony DSC W50 Ref: 180364 NEW! | £199.99 | 6.0 MP, 3x Zoom, M/S |
| Sony DSC H2 Ref: 179875 NEW! | £349.99 | 7.2 MP, 12x Zoom, M/S |
| Sony DSC M2 Ref: 180836 | £399.99 | 5.1 MP, 3x Zoom, M/S |
| Sony DSC N1 Ref: 180851 | £344.99 | 8.1 MP, 3x Zoom, M/S |
| Sony DSC R1 Ref: 180809 | £599.99 | 10.3 MP, 5x Zoom, M/S |
| Sony DSC P200 Silver Ref: 127030 | £179.99 | 7.2 MP, 3x Zoom, M/S |
| Sony DSC T7 Ref: 9525 | £279.99 | 5.0 MP, 3x Zoom, M/S |

## NEW! NOW IN STORE!

**Canon EOS 30D inc. 18-55mm**

- Large 2.5" LCD screen • 3 or 5 fps cont shooting
- EF & EF-S compatible lens mount
- Fast start up time
- Direct print button

8.2 MP

£WEB

Body Only Ref: 189008
SEE WEB FOR LATEST PRICE!

inc.17-85mm Ref: 189116
SEE WEB FOR LATEST PRICE!

### Accessories for Canon EOS 30D

**LENSES**
For a range of Canon EF/ EF-S lenses, see chart on right.

**FLASH**

| | |
|---|---|
| Canon Speedlite 220EX Ref: 53012 | £113.99 |
| Canon Speedlite 430EX Ref: 44429 | £199.99 |
| Canon Speedlite 580EX Ref: 44383 | £329.99 |
| Canon MR14EX Ref: 86706 | £339.99 |
| Canon MT24EX Ref: 12147 | £699.99 |

**FLASH ACCESSORIES**

| | |
|---|---|
| Canon Off camera shoe cord Ref: 22674 | £39.99 |
| Canon Extension cord Ref: 106760 | £49.99 |
| Canon Transmitter STE-2 Ref: 106899 | £149.99 |
| Canon Transmitter STE-1 Ref: 132966 | £129.99 |

**CONTROLLERS**

| | |
|---|---|
| Canon TC-80N3 Timer remote Ref: 108722 | £95.99 |
| Canon RS-80N3 Remote switch Ref: 106831 | £39.99 |
| Canon LC-5 Wireless controller Ref: 135033 | £329.99 |

**BATTERIES**

| | |
|---|---|
| Canon BP-511A Spare battery Ref: 53042 | £34.99 |
| Energizer CA511 Spare battery Ref: 153024 | £27.99 |
| Hahnel HL-511 Spare battery Ref: 180005 | £34.99 |
| Unirose BP-511 Spare battery Ref: 179999 | £34.99 |
| Canon BG-E2 Battery grip Ref: 132379 | £149.99 |
| Canon BGM-E2 Battery holder Ref: 139975 | £15.99 |
| Canon CA-PS400 Power adapter Ref: 146247 | £89.99 |
| Canon ACK E2 AC Adapter Kit Ref: 118310 | £59.99 |

**EYEPIECE ACCESSORIES**

| | |
|---|---|
| Canon EP-EX15 Eyepiece extender Ref: 26711 | £17.99 |
| Canon Rubber frame EB Ref: 19316 | £5.99 |
| Canon E-series dioptic adjustment lenses | £5.49 |
| Canon Angle Finder C Ref: 152151 | £149.99 |

## Lenses - For filter size, match the lens colour & see key above.

### Canon WIDE-ANGLE LENSES
Ideal for indoor shooting.
● = Lens inc.Lens Hood. ● = Lens use 'Drop-in' filters

| | | | | | |
|---|---|---|---|---|---|
| EF 14mm f2.8L | Ref: 19366 | £1459.00 | | | |
| EF 15mm f2.8 | Ref: 19580 | £469.00 | | | |
| EF 20mm f2.8 USM | Ref: 19649 | £329.00 | EW-75II | Ref: 160047 | £42.99 |
| EF 24mm f1.4 L U | Ref: 120380 | £944.00 | EW-83DII | Ref: 126526 | £43.99 |
| EF 24mm f3.5 L TSE | Ref: 17142 | £940.00 | EW-75BII | Ref: 123864 | £17.99 |
| EF 35mm f2 | Ref: 19621 | £186.99 | EW-65II | Ref: 20496 | £17.99 |

### Canon Lens Hoods
Below shows which lens hood is required for each lens.

### Canon STANDARD LENSES Offers a wide maximum aperture.

| | | | | | |
|---|---|---|---|---|---|
| EF 50mm f1.8 II | Ref: 19958 | £73.00 | ES-62 | Ref: 20796 | £17.99 |
| EF 50mm f1.4 USM | Ref: 19943 | £344.00 | ES-71II | Ref: 20799 | £19.99 |

### Canon MACRO LENSES For close range photography, ie. insects.

| | | | | | |
|---|---|---|---|---|---|
| EF 50mm f2.5 Macro | Ref: 19998 | £196.00 | | | |
| EF 100mm f2.8 Macro | Ref: 66998 | £389.00 | ET-67 | Ref: 137579 | £24.99 |
| EF 65mm f2.8 Macro MPE | Ref: 152014 | £714.00 | | | |
| EF 180mm f3.5L Macro | Ref: 59034 | £1019.00 | ET-78II | Ref: 100120 | £32.99 |

### Canon TELEPHOTO LENSES Ideal for distance photography, ie. Wildlife.

| | | | | | |
|---|---|---|---|---|---|
| EF 85mm f1.8 | Ref: 20067 | £269.00 | ET-65III | Ref: 20444 | £17.99 |
| EF 85mm f1.2 L USM | Ref: 20066 | £1249.99 | ES-79II | Ref: 183882 | £39.99 |
| EF 100mm f2 | Ref: 19927 | £314.00 | ET-65III | Ref: 20444 | £17.99 |
| EF 135mm f2 L USM | Ref: 56551 | £719.00 | ET-78II | Ref: 100120 | £32.99 |
| EF 200mm f2.8L II USM | Ref: 19813 | £522.00 | EW-83BII | Ref: 132205 | £32.99 |
| EF 300mm f2.8 L USM IS | Ref: 100562 | £3199.00 | ET-120 | Ref: 183997 | £299.99 |
| EF 300mm f4L USM IS | Ref: 43012 | £924.00 | | | |
| EF 400mm f2.8L USM IS | Ref: 100572 | £5379.00 | ET-155 | Ref: 183904 | £389.99 |
| EF 400mm f4 DO U | Ref: 11357 | £3059.00 | ET-120 | Ref: 183997 | £299.99 |
| EF 500mm f4 L IS USM | Ref: 100884 | £4449.99 | ET-138 | Ref: 183917 | £329.99 |

### Canon ZOOM LENSES Convenient lens with a range of focal lengths.

| | | | | | |
|---|---|---|---|---|---|
| EF 100-400mm f4.5-5.6 | Ref: 124873 | £1099.00 | ET-83C | Ref: 104798 | £43.99 |
| EF 16-35mm f2.8L USM | Ref: 10820 | £999.00 | EW-83E | Ref: 114057 | £24.99 |
| EF 17-40mm f4 L | Ref: 12454 | £544.00 | EW-83E | Ref: 114057 | £24.99 |
| EF 24-70mm f2.8L U | Ref: 156519 | £899.00 | EW-83F | Ref: 133735 | £45.99 |
| EF 28-135mm f3.5-5.6 IS | Ref: 86286 | £335.00 | EW-78BII | Ref: 802722 | £19.99 |
| EF 28-300mm f3.5-5.6 | Ref: 14047 | £1599.00 | EW-83G | Ref: 14341 | £43.99 |
| EF 24-105mm f4 USM IS | Ref: 44082 | £749.99 | EW-83H | Ref: 183931 | £43.99 |
| EF 55-200mm USM MkII | Ref: 119878 | £199.00 | ET-54 | Ref: 20405 | £17.99 |
| EF 70-200mm f2.8 LUIS | Ref: 152190 | £1440.99 | ET-86 | Ref: 123 | £27.99 |
| EF 70-200mm f4 L USM | Ref: 152001 | £479.00 | ET-74 | Ref: 187094 | £32.99 |
| EF 70-300mm f4.5-5.6 | Ref: 14197 | £329.00 | EW-83DII | Ref: 126529 | £43.99 |
| EF 75-300m f4-5.6 USM III | Ref: 6946 | £168.99 | EW-83DII | Ref: 126529 | £43.99 |
| EF 70-300mm f4.5-5.6 USM IS | Ref: 43991 | £469.99 | EW-83DII | Ref: 126529 | £43.99 |

### Canon EF-S LENSES Compatible with EOS 350D, EOS 20D and EOS 30D.

| | | | | | |
|---|---|---|---|---|---|
| EF-S 60mm f2.8 Macro USM | Ref: 186555 | £282.99 | EW-83DII | Ref: 126529 | £43.99 |
| EF-S 10-22mm f3.5-4.5 | Ref: 11831 | £524.99 | EW-83DII | Ref: 126529 | £43.99 |
| EF-S 17-85mm f4-5.6 U IS | Ref: 11874 | £427.99 | EW-83DII | Ref: 126529 | £43.99 |

### Converters/ Extenders
Multiplies the effective focal length of the lens attached.

| | | |
|---|---|---|
| Canon EF 1.4X II Extender | Ref: 19579 | £229.99 |
| Canon EF 2X II Extender | Ref: 19747 | £229.99 |
| Sigma 1.4X DG Converter | Ref: 112739 | £139.99 |
| Sigma 2X EX DG Converter | Ref: 159963 | £199.99 |

### Zigview DIGITAL ANGLE VIEWFINDER
Rotating LCD monitor that attaches to the eyepiece of your camera.Useful for macro work & angle photography.

| | | |
|---|---|---|
| Zigview | Ref: 196 | £119.99 |
| Zigview R | Ref: 297 | £199.99 |

### Lowepro REZO POUCHES
Stylish & custom made for digital cameras. Hugs the camera yet provides high levels of protection.

| | |
|---|---|
| REZO 10 (Ref:95934) | £10.99 |
| REZO 15 (Ref:152038) | £11.99 |
| REZO 20 (Ref:95961) | £12.99 |
| REZO 30 (Ref:95973) | £14.99 |
| REZO 40 (Ref:95985) | £16.99 |
| REZO 50 (Ref:95998) | £18.99 |
| REZO 60 (Ref:96005) | £20.99 |

£10.99 Rezo 10

### tamrac

TA5690 TA5208

### TAMRAC DIGITAL RANGE
Protection for compact cameras with foam padding. Pockets for cards & spare batteries.

| | |
|---|---|
| TA5691 DIGITAL 1 (Ref:26022) | £9.99 |
| TA5692 DIGITAL 2 (Ref:25488) | £11.99 |
| TA5693 DIGITAL 3 (Ref:9760) | £16.99 |
| TA5694 DIGITAL 4 (Ref:2552) | £18.99 |
| TA5696 DIGITAL 6 (Ref:25573) | £17.99 |
| TA5697 DIGITAL 7 (Ref:10372) | £24.99 |
| TA5697 DIGITAL 8 (Ref:26294) | £29.99 |

### CRUMPLER PP RANGE
Suitable for cameras, MP3 players and mobiles.
AVAILABLE IN BLACK, NAVY & SILVER

| | | | |
|---|---|---|---|
| PP 50 | £8.49 | PP 90 | £9.99 |
| PP 65 | £8.99 | PP 100 | £10.50 |
| PP 70 | £9.50 | PP 120 | £10.99 |

£9.99

### Jacobs Recommended Bags for your SLR

**Lowepro** Lightweight shoulder bag offering plenty of protection with a padded interior & a memory card pouch.
Lowepro Rezo 170AW Ref: 167010
• SLR & attached lens • 2-3 extra lenses • Accessories
£39.99

**tamrac** Compact SLR pouch offering excellent protection.
Tamrac Pro Digital Zoom 9 Ref: 167804
• Fits SLR • Extra lenses • Accessories
£39.99

All-weather, Non-drop front pocket for the changing of lenses.
Lowepro Nova 5 AW
• 2 SLR's & lens • 4-5 extra lenses • Accessories
£59.99

Photo backpacks covering the entire spectrum of photo equipment.
Tamrac Expedition 5
• Fits SLR & lens • 4-6 extra lenses • Accessories
£99.99

For photographers on the go, perfect for journalists/enthusiasts.
Lowepro Mini Trekker AW
• SLR & lens • Additional body • 4-6 extra lenses • Accessories
£79.99

**CRUMPLER**
Suitable for SLR equip.
Geekstar
• Fits SLR • Extra lenses • Accessories
Ref: 58354
£109.99

### HOYA Filters Match the colour coded lens against the relevant diameter

| Description | 52 | 58 | 67 | 72 | 77 |
|---|---|---|---|---|---|
| UV/ Sky 1B | £9.99 | £11.99 | £21.49 | £26.99 | £33.99 |
| Prot D UV | £23.99 | £27.99 | £34.99 | £39.99 | £43.99 |
| Circular Polarizer | £23.49 | £28.99 | £39.99 | £44.99 | £56.99 |
| Prot D Circular Pol | £51.99 | £58.99 | £65.99 | £107.99 | £129.99 |
| ND Series (each) | £13.49 | £17.99 | £26.49 | £31.99 | £39.99 |
| Prot D Protection | £23.99 | £27.99 | £34.99 | £39.99 | £43.99 |

### Jacobs Recommended Tripods for your Digital SLR

**Manfrotto**
Lightweight, compact & sturdy with low angle adapter built in the centre column for ground level shots.
Manfrotto 190D & 393RC Head Ref: 142368
£94.99

**Manfrotto**
Professional quality tripod, which is extremely versatile. Ideal for medium format, digital or conventional cameras.
Manfrotto 055 CL & 141RC Head Ref: 141455
£148.99

**Manfrotto**
User-friendly model with the Neotec rapid opening & closing mechanism. Features a full range of professional features & has a max height of 62.4".
Manfrotto MN458B Ref: 140687
£274.99
Recommended Head: MN322RC2 Ref: 49583 £69.99

### Memory Cards

**COMPACTFLASH**
SANDISK
256Mb Ref: 141077 £16.99
512Mb Ref: 141111 £32.99
1Gb Ultra II Ref: 141481 £79.99
LEXAR
512Mb (8x) Ref: 81120 £34.99
512Mb Pro (80x) Ref: 191820 £48.99
1Gb Pro (80x) Ref: 191827 £84.99
KINGSTON
256Mb Ref: 200163 £16.99
512Mb Ref: 200306 £32.99
1Gb Pro Ref: 200213 £58.99
FUJIFILM
512Mb 40x Ref: 130040 £44.99
1Gb 40x Ref: 130069 £78.99

**sD SECURE DIGITAL**
SANDISK
256Mb Ref: 141234 £34.99
1Gb Ref: 141383 £69.99
LEXAR
512Mb 5x Ref: 146934 £32.99
512Mb 133x Ref: 180543 £44.99
1Gb 133x Ref: 180545 £79.99
FUJIFILM
512Mb 60x Ref: 130268 £49.99
512Mb 133x Ref: 130403 £69.99
1Gb 60x Ref: 130316 £84.99
KINGSTON
256Mb Ref: 200141 £24.99
256Mb Elite Pro Ref: 197402 £29.99
512Mb Ref: 200100 £32.99
512Mb Elite Pro Ref: 159216 £44.99

**xD PICTURE CARD**
FUJIFILM
256Mb Ref: 180667 £29.99
512Mb Ref: 152927 £49.99
1Gb 'M' Ref: 180551 £89.99
OLYMPUS
256Mb Ref: 128149 £29.99
LEXAR
512Mb Ref: 187477 £49.99

**MEMORYSTICK**
SONY
256Mb Pro Ref: 158129 £29.99
256Mb Pro Duo Ref: 96564 £29.99
SANDISK
512Mb Pro Duo Ref: 142774 £44.99
1Gb Pro Duo Ref: 162269 £73.99

## JACOBS STORES

**BIRMINGHAM** 97-99 Corporation St. Tel: 0121 233 4196 birmingham@jacobs-photo.co.uk
**BRISTOL** 88 Whiteladies Rd.Tel: 0117 973 3610 bristol@jacobs-photo.co.uk
**DERBY** 52 St. Peters St. Tel: 01332 202 599 derby@jacobs-photo.co.uk
**HULL** 76 Prospect St. Tel: 01482 226 170 hull@jacobs-photo.co.uk
**LIVERPOOL** 54 Bold Street. Tel: 0151 709 3733 liverpool@jacobs-photo.co.uk
**LEICESTER** 60 London Road. Tel: 0116 255 0111 london@jacobs-photo.co.uk
**LEICESTER** 61 Granby Street. Tel: 0116 254 4572 granby@jacobs-photo.co.uk
**LONDON NEW STORE!** 124-126 Cannon St. Tel: 020 7621 1621 Next to Monument Tube Station
**LONDON** 74 New Oxford St. Tel: 020 7436 5544 london@jacobs-photo.co.uk
**MANCHESTER** 16 Cross Street. Tel: 0161 834 7500 manchester@jacobs-photo.co.uk
**NEWCASTLE** 55-57 Clayton Street. Tel: 0191 233 2678 newcastle@jacobs-photo.co.uk
**NOTTINGHAM** 22 King Street. Tel: 0115 941 2178 nottingham@jacobs-photo.co.uk
**SHEFFIELD** 5 Rockingham Gate. Tel: 0114 272 0908 sheffield@jacobs-photo.co.uk

*E&OE. Prices subject to change. Products subject to availability.*

YYePG Proudly Presents, Thx for Support

# MAIL ORDER: 0870 609 1425 sales@jacobs-photo.co.uk

# fotoSENSE.co.uk

WHY NOT COLLECT FROM OUR STORE IN BOLTON!
Address At Bottom Of Page

## Digital camera, printers, scanners, memory and much more .....

# NEW OLYMPUS E-330

**World's first Live View digital SLR with two modes:**

- 7.5 million pixels Live MOS sensor
- Multi-angle 6.4cm/2.5" HyperCrystal LCD (215,250 pixels
- Supersonic Wave Filter for dust protection
- TTL Optical Porro Finder design
- Single AF, continuous AF and manual focusing, plus S-AF+MF and C-AF+MF & 49 area AE sensor
- ESP, centre-weighted average and spot exposure metering plus high light basis & shadow light spot metering

**E330 Body Only** (with Charger & Battery set worth £120) - **£759**
**E330 Body + 14-45mm f/3.5-5.6 Zuiko Lens** + Charger Set - **£829**

## 1/2 PRICE MACRO

BUY ANY E330 PACKAGES and take an OLYMPUS 35mm MACRO Lens for HALF ITS RRP PRICE ! RRP £159.99

Only £85

- Offer Valid Whilst Stocks Last - Offer Applies to Purchases of the E330 Only

### PRO PACKAGE

**E330 Body Complete with**

- 14-45mm f/3.5-5.6 Zuiko Lens
- 40-150mm f3.5-4.5 Zuiko Lens
- 2GB Sandisk Extreme Card
- Lithium Ion Battery & Charger
- Olympus E-System Case
- Spare Lithium Battery Pack

**£999**

### MEDICAL / MACRO PACKAGE

**E330 Body Complete with**

- 14-45mm f/3.5-5.6 Zuiko Lens
- 50mm f/2.0 MACRO Zuiko Lens
- SRF-11 Ring Flash Set
- FR-1 Lens Adapter Ring
- 2GB Sandisk Extreme Card
- Lithium Ion Battery & Charger
- Olympus E-System Case

**£1949**

### UNDERWATER PRO PACKAGE

**E330 Body Complete with**

- 14-45mm f/3.5-5.6 Zuiko Lens
- 50mm f/2.0 MACRO Zuiko Lens
- FL-36 Flash Gun
- PT-E02 Underwater Housing
- PPO-E03 Lens Housing
- PFL-E01 Flash Housing
- PSTA-01 + PTBK-E01
- 2GB Sandisk Extreme Card
- Lithium Ion Battery & Charger
- Olympus E-System Case
- Spare Lithium Battery Pack

**£2999**

## OLYMPUS E-500 SPECIAL OFFERS

### LEAVES OTHER DSLR's IN THE DUST

The eight million pixel Olympus E-500 digital SLR is a cr... ...gapher's dream with a full comple... user-friend... The easy-t... by the high... LCD, which allows ... large format directly on the camera.

| SPECIFICATION | 28/30 |
|---|---|
| BUILD | 17/20 |
| HANDLING | 18/20 |
| PERFORMANCE | 26/30 |

89% AP's RATING

### GOLD PACKAGE (Save Over £40)

E-500 Body Complete with

- 14-45mm f/3.5-5.6 Zuiko Digital Lens
- 40 - 150mm f/3.5-4.5 Zuiko Digital Lens
- Lithium Battery & Charger Kit (worth £140)

**£629**

**+ FREE OLYMPUS E-SYSTEM CASE Worth £59.99**

### PRO PACKAGE (Save Over £150)

E-500 GOLD PACKAGE (as above) with extra

- **2GB Sandisk EXTREME Flash Card RRP £149.99**
- Olympus E-System Kit Case RRP £59.99
- Spare Lithium Ion Battery Pack RRP £34.99

**£739**

Add on items cannot be bought separately - they are only availble with the package deals! Savings are based on the RRP of the relative product.

## E-SYSTEM ACCESSORIES

### Lenses

**PRIME LENSES**

8mm Fisheye ..£524.99
35mm Macro ...£149.99
50mm f2.0 .....£354.99
150mm f2.0 ...£1949.99
300mm f2.8 .....£ASK

**ZOOM LENSES**

7-14mm f4 .....£1199.99
11-22mm .....£559.99
14-45mm .....£164.99
14-54mm .....£449.99
40-150mm .....£189.99
18-180mm .....£ASK
35-100 mm f2.0...£ASK
90-250mm f2.8 ...£ASK

11-22mm £559.99

50-200mm £699.99

50mm Macro £354.99

FL-50 Flash £279.99

HLD-3 Grip £69.99

**CONVERTERS**

EC14 Tele .....£324.99
EX25 Ex. Tube ..£99.99

### Other

More E-System parts available on our online catalogue. We are an E-System Preferred Stockists and carry most lines in stock !

### Flash

**FLASH GUNS**

FL-20 .....£99.99
FL-36 .....£139.99
FL-50 .....£279.99
FS-STF11 Ring Flash Set .....£459.99
FS-STF22 Ring Flash Set .....£599.99

**CABLES**

FL-BK01 Bkt ...£64.99
FP-1 Grip .....£244.99
FL-CB02 .....£ASK
FL-CB05 .....£ASK
SHV-1 Set ....£419.99

### Power

**CHARGERS**

BCM-1 Chrg...£74.99
BLM-1 Batt ....£59.99
BLL-1 Batt....£104.99
BN-1 Batt ....£124.99

**POWER GRIPS**

HLD-2 Grip...£164.99
HLD-3 Grip ....£64.99
Grip E500 .....£TBA

Lowepro Manfrotto

....thousands of products from Major Manufacturers on our webiste

## For this and much more visit www.fotosense.co.uk

RRP £159.99

BUY ANY OF THE ABOVE PACKAGES and take an OLYMPUS FL-36 Flash Unit for HALF ITS RRP PRICE - Offer Valid UNTIL STOCKS LAST!

**1/2 PRICE FLASH £79**

YYePG Proudly Presents, Thx for Support

## Tel 01204 532325

9 - 5pm MON-FRI

FotoSense Ltd, Unit 9, Riverside Park
Waters Meeting Rd, Bolton, BL1 8TU

VISA

# Walters Photo Video .co.uk

for choice, value & advice

## Visit our website @ www.waltersphotovideo.co.uk

Go to the bargain basement for the Latest Clearance Deals !

features : Secure Online Ordering
Stock Indicator

All of our 2500 used items updated daily !!

Subscribe to our e-mailing list for latest product news & special offers.

## NEW Canon EOS 30D

Realise your photographic vision with the EOS 30D. Speed and precision in a tough magnesium alloy body, with access to over 60 EF lenses and the range of EOS accessories for unlimited creativity.

**FEATURES INCLUDE-**
**-8.2 Megapixel CMOS**
**-5fps,30 image JPEG burst**
**-2.5 inch LCD**
**-Spot metering & 9 point AF**

**£999.99**
*including FREE 2GB compact flash card*

## NOW IN STOCK!

## Canon EF Lenses

| | |
|---|---|
| EF 15mm f2.8 | £494.99 |
| EF 14mm f2.8 L | £ 1459.99 |
| EF 20mm f2.8 U | £334.99 |
| EF 24mm f1.4 L | £944.99 |
| EF 24mm f2.8 | £319.99 |
| EF 28mm f1.8 U | £324.99 |
| EF 28mm f2.8 | £139.99 |
| EF 35mm f1.4 L U | £919.99 |
| EF 35mm f2.0 | £179.99 |
| EF 50mm f1.4 U | £244.99 |
| EF 50mm f1.8 | £74.99 |
| EF 50mm f2.5 Macro | £199.99 |
| EF-S 60mm f2.8 Macro | £289.99 |
| EF 85mm f1.2 L | £1199.99 |
| EF 85mm f1.2 L Mk II | £SEE WEB |
| EF 85mm f1.8 U | £269.99 |
| EF 100mm f2.0 USM | £314.99 |
| EF 100mm f2.8 Macro USM | £389.99 |
| EF 135mm f2.0 L U | £719.99 |
| EF 135mm f2.8 SF | £239.99 |
| EF 180mm f3.5 Macro L U | £1019.99 |
| MPE 65mm f2.8 | £719.99 |
| TS-E 24mm, 45mm, 90mm | £899.99 |
| EF 200mm f2.8 L U / 2 | £519.99 |
| EF 300mm f2.8 L UIS | £3119.99 |
| EF 300mm f4.0 L UIS | £899.99 |
| EF 400mm f2.8 L UIS | £5269.99 |
| EF 400mm f5.6 L | £874.99 |
| EF 400mm f4.0 DO IS USM | £3949.99 |
| EF 500mm f4.0 L UIS | £4399.99 |
| EF 600mm f4.0 L UIS | £5799.99 |
| EF 24-105mm f4L UIS | £749.99 |
| EF-S 10-22mm f3.5-4.5 USM | £519.99 |
| EF 16-35mm f2.8 L | £999.99 |
| EF 17-40mm f4 L | £539.99 |
| NEW EF-S 17-55mm f2.8 IS USM | £SEE WEB |
| EF-S 17-85mm f4-5.6 IS USM | £409.99 |
| EF 20-35mm f3.5-4.5 | £294.99 |
| EF 24-70mm f2.8L | £889.99 |
| EF 24-85mm f3.5-4.5 USM | £249.99 |
| EF 28-90mm USM | £89.99 |
| EF 28-105mm f3.5-4.5 U / 2 | £189.99 |
| EF 28-135mm f3.5-5.6 UIS | £334.99 |
| EF 28-200mm f3.5-5.6 | £269.99 |
| EF 28-200mm f3.5-5.6 USM | £339.99 |
| EF 55-200mm f4 5-5.6 USM II | £149.99 |
| EF 70-200mm f2.8 L UIS | £1299.99 |
| EF 70-200mm f4.0 L | £479.99 |
| EF 80-200mm f4.5-5.6 | £99.99 |
| EF 100-300mm f4.5-5.6 U | £249.99 |
| EF 100-400mm f4.5-5.6 UIS | £1089.99 |
| EF 28-300mm f3.5-5.6 L UIS | £1569.99 |
| EF 70-300mm f4-5.6 UIS | £399.99 |
| EF 70-300mm f4.5-5.6 DO IS USM | £839.99 |
| EF 90-300mm f4.5-5.6 USM | £189.99 |
| EF 1.4x II Extender | £229.99 |
| EF 2.0x II Extender | £229.99 |
| EF 12 Ext Tube | £89.99 |
| EF 25 Ext Tube | £109.99 |

Speedlight 580EX £299.99 Speedlight 430EX £179.99

you can Canon

## Canon EOS 1DS Mk II

14.7 megapixel FULL FRAME CMOS sensor

**£4599.99**

## Canon EOS 1D Mk IIn

The 8.2 megapixel is the essential tool of sports and reportage photographers! With pack leading 8.5 fps and 48 frame jpeg burst performance.!

**£2449.99**

## Canon EOS 5D

The full frame 12.8 megapixel EOS 5D. Discreet enough to avoid attention with resolution enough to keep the toughest editors happy!

**£1799.99**

**+ £200 cash back!**

| | |
|---|---|
| Canon EOS 20D Body Only/ +EF-S 18-55mm lens | £769.99 £799.99 |
| Canon EOS 350D Body Only/ + EF-S 18-55mm lens | £489.99 £519.99 |

For Kit Prices and Latest Availability
Visit www.waltersphotovideo.co.uk

you can Canon

Digital IXUS 60 6.0 Megapixels 3x Optical Zoom £269.99

Digital IXUS Wireless 5.0 Megapixels 3x Optical Zoom Wireless Enabled £329.99

Digital IXUS 800 IS 8.0 Megapixels 4x Optical Zoom with IS £339.99

Nikon

Nikon Coolpix L3 5.1 Megapixels 3x Optical Zoom £169.99

Nikon Coolpix L2 6.0 Megapixels 3x Optical Zoom £199.99

Nikon Coolpix S5 6.0 Megapixels 3x Optical Zoom Stylish Wave-Surface design £299.99

Panasonic

DMCLZ38 6.0 Megapixels 4x Optical Zoom Mega Optical Image Stabiliser £219.99

DMCFX018 The worlds smallest camera with 28mm wide angle lens and 6 megapixels! £249.99

DMCFZ78 6.0 Megapixels 12x Optical Zoom Mega Optical Image Stabiliser £299.99

OLYMPUS

Mju 700 7.1 Megapixels 3x Optical Zoom Weatherproof Body £199.99

FUJIFILM

V10 5.1 Megapixels 3x Optical Zoom 3"LCD including 256xd card + leather case £259.99

many more digital compacts at www.waltersphotovideo.co.uk

## LENS CLEARANCE SALE!

COSINA Tokina

see website for full list or call 01685 723 419 NOW!

Nikon

## NEW D200

| | |
|---|---|
| Nikon D200 body +1GB cf | £1249.99 |
| Nikon D200 + 18-70mm | £1449.99 |
| Nikon D200 + 17-55mm | £2229.99 |
| Nikon D200 + 18-200mm | £1699.99 |

*see web for latest availability*

| | |
|---|---|
| D50 Body | £359.99 |
| D50 w/DX 18-55mm Kit Black | £449.99 |
| D50 w/DX 18-55mm Kit Silver | £449.99 |
| D50 w/DX 18-55mm + 55-200mm | £589.99 |

Check web/phone for more extra value money saving bundles.

D70s

| | |
|---|---|
| D70s w/DX 18-70mm | £779.99 |
| D70S w/Tamron 18-200mm Di | £899.99 |
| Nikon D2x | £2899.99 |
| Nikon D2Hs | £2149.99 |

see web for latest prices and availability

Nikon

## AF Lenses

| | |
|---|---|
| AF-DX 10.5mm f2.8 G | £494.99 |
| AF-D 50mm f1.4 | £199.99 |
| AF-D 50mm f1.8 | £99.99 |
| AF-D 14mm f2.8 | £1099.99 |
| AF 18mm f2.8 | £1149.99 |
| AF-D 20mm f2.8 | £499.99 |
| AF-D 24mm f2.8 | £349.99 |
| AF-D 28mm f1.4 | £1489.99 |
| AF-D 28mm f2.8 | £189.99 |
| AF-D 35mm f2 | £219.99 |
| AF-D 85mm f1.4 IF | £779.99 |
| AF-D 85mm f1.8 | £339.99 |
| AF-D 105mm f2 DC | £789.99 |
| AF-D 135mm f2 DC | £979.99 |
| AF-D 180mm f2.8 IF | £589.99 |
| AF-S 300mm f4 IF ED | £869.99 |
| AF-S VR 300mm f2.8 D | £3549.99 |
| AF-S 400mm f2.8 D | £5999.99 |
| AF-S 500mm f4 IF ED | £5249.99 |
| AF-S 600mm f4 IF ED | £6279.99 |
| AF-D 16mm f2.8 Fisheye | £559.99 |
| AF-D 60mm f2.8 Micro | £359.99 |
| AF-D 70-180mm ED-Micro | £849.99 |
| AF-D 105mm f2.8 Micro | £639.99 |
| AF-D 200mm f4 ED Micro | £1049.99 |
| AF-S 12-24mm f4 DX | £739.99 |
| AF-S 17-35mm f2.8 D | £1199.99 |
| AF-S 17-55mm f/2.8 DX | £999.99 |
| AF-D 18-35mm f3.5-4.5 IF | £299.99 |
| AF-D 24-50mm f3.5-4.5 | £339.99 |
| AF-S 24-85mm f3.5-4.5 G | £294.99 |
| AF-S 24-120mm f3.5/5.6 VR | £449.99 |
| AF-S 28-70mm f2.8 D IF | £1149.99 |
| AF-D 28-70mm f3.5-4.5 | £249.99 |
| AF-G 28-100mm f3.5-5.6 | £79.99 |
| AF-D 28-105mm f3.5-4.5 IF | £279.99 |
| AF-D 28-200mm f3.5-5.6 IF | £249.99 |
| AF-D 35-70mm f2.8 | £499.99 |
| AF-D 35-105mm f3.5-4.5 | £199.99 |
| AF-S 70-200mm f2.8 VR | £1299.99 |
| AF-D 70-300mm f4.5-5.6 ED | £279.99 |
| AF 70-300mm f4.5-5.6 G | £149.99 |
| AF-D 80-400mm f4/5.6 VR | £1029.99 |
| AF-S 200-400mm f4G VR | £4399.99 |
| AF-S DX 18-200mm f3.5-5.6 VR | £549.99 |
| AF-S 105mm f2.8 VR | £SEE WEB |
| TC-14E II | £350.00 |
| TC-20E II | £280.00 |
| TC-17E | £329.99 |
| SB-600DX | £174.99 |
| SB-800DX | £279.99 |
| SB-R1C1 Macro Ringflash | £549.99 |

## Lowepro

**Complete Stockist!**

for latest prices and availability, or for any bag not listed phone 029 2085 2393

| | |
|---|---|
| Dryzone Rover | £194.99 |
| Dryzone 200 | £189.99 |
| Dryzone 100 | £139.99 |
| Super Trekker AW II | £339.99 |
| Pro Trekker AW II | £229.99 |
| Photo Trekker AW II | £169.99 |
| Nature Trekker AW II | £159.99 |
| Orion Trekker II | £44.10 |
| Compu Trekker Plus AW | £179.99 |
| Rover AW Plus | £119.99 |
| Rover AW II | £89.99 |
| Compu Trekker AW | £99.99 |
| Compu Daypack | £99.99 |
| Mini Trekker AW | £74.99 |
| Micro Trekker 100 | £39.99 |
| Micro Trekker 200 | £45.99 |
| Photo Trekker Classic | £99.99 |
| Mini Mag AW | £75.99 |
| Elite AW | £89.99 |
| Compact AW | £89.99 |
| Pro Mag 2AW | £98.99 |
| Magnum AW | £99.99 |
| Commercial AW | £139.99 |
| Slider 10 | £13.00 |
| Slider 20 | £13.00 |
| Slider 30 | £13.00 |

| | |
|---|---|
| Ridge 10 | £10.00 |
| Ridge 20 | £11.00 |
| Ridge 30 | £12.00 |
| Ridge 60 | £16.00 |

| | |
|---|---|
| Stealth Reporter D100AW | £89.00 |
| Stealth Reporter D200AW | £89.00 |
| Stealth Reporter D300AW | £99.00 |
| Stealth Reporter D400AW | £119.00 |
| Stealth Reporter D500AW | £129.00 |
| Stealth Reporter D650AW | £149.00 |
| Stealth AW II Backpack | £129.00 |

Recruiter AW Clearance-See Web!

| | |
|---|---|
| D-Res 4 | £9.99 |
| D-Res 4m | £11.99 |
| D-Res 5 | £11.99 |
| D-Res 6 | £11.99 |
| D-Res 8s | £11.99 |
| D-Res 8 | £12.99 |
| D-Res 8m | £12.99 |
| D-Res 9 | £13.99 |
| D-Res 10AW | £13.99 |
| D-Res 20AW | £14.99 |
| D-Res 25AW | £16.99 |
| D-Res 30AW | £19.99 |
| D-Res 40AW | £25.99 |
| D-Res 50AW | £29.99 |
| D-Res-200AW | £19.99 |
| D-Res 220AW | £25.99 |

| | |
|---|---|
| Slingshot 100AW | £59.00 |
| Slingshot 200AW | £69.00 |
| Road Runner Mini AW | £269.99 |
| Road Runner AW | £299.99 |
| Rolling Mini Trekker AW | £139.99 |
| Rolling Compu Trekker PLus AW | £268.99 |
| Pro Roller Mini | £149.99 |
| Pro Roller 1 | £259.99 |
| Pro Roller 2 | £289.99 |
| Pro Roller 3 | £359.99 |
| TLZ Mini | £17.99 |
| TLZ 1 | £19.99 |
| TLZ 2 | £26.99 |
| TLZ AW | £40.99 |
| TLZ Pro AW | £49.99 |
| Toploader 85AW | £58.99 |
| Toploader 70AW | £48.99 |
| Toploader 75AW | £58.99 |
| Nova Micro AW | £19.99 |
| Nova Mini AW | £21.99 |
| Nova 1 AW | £26.95 |
| Nova 2 AW | £33.99 |
| Nova 3 AW | £38.99 |
| Nova 4 AW | £42.99 |
| Nova 5 AW | £49.99 |

| | | | |
|---|---|---|---|
| Rezo 170AW | £38.99 | Rezo 60 | £21.99 |
| Rezo 160AW | £34.99 | Rezo 50 | £20.99 |
| Rezo 140AW | £25.99 | Rezo 40 | £15.99 |
| Rezo 120AW | £24.99 | Rezo 30 | £13.99 |
| Rezo 110AW | £19.99 | Rezo 20 | £11.99 |
| Rezo TLZ 20 | £26.99 | Rezo 15 | £10.99 |
| Rezo TLZ 10 | £21.99 | Rezo 10 | £9.99 |

## SIGMA AF LENSES

| | |
|---|---|
| Sigma 8mm f4 EX DG | £499.99 |
| Sigma 14mm f2.8 EX | £539.99 |
| Sigma 15mm f2.8 fish-eye DG | £389.99 |
| Sigma 20mm f1.8 EX DG | £299.99 |
| Sigma 24mm f1.8 EX DG | £254.99 |
| Sigma 28mm f1.8 EX DG | £214.99 |
| Sigma 30mm f1.4 EX DC HSM | £284.99 |
| Sigma 105mm f2.8 EX DG Macro | £279.99 |
| Sigma 10-20mm f4-5.6 EX DC HSM | £329.99 |
| Sigma 17-70mm f2.8-4.5 DC | £249.99 |
| Sigma 18-50mm f2.8 EX DC | £319.99 |
| Sigma 18-125mm f3.5-5.6 DC | £194.99 |
| Sigma 18-200mm f3.5-6.3 DC | £254.99 |
| Sigma 55-200mm f4-5.6 DC | £109.99 |
| Sigma 28-300mm f3.5-5.6 DG | £189.99 |
| Sigma 24-60mm f2.8 EX DG | £289.99 |
| Sigma 24-70mm f2.8 DG Macro | £294.99 |
| Sigma 28-70mm f2.8 EX DG | £229.99 |
| Sigma 50-500mm f4-6.3 EX DG APO | £719.99 |
| Sigma 70-200mm f2.8 APO EX DG | £599.99 |
| Sigma 80-400mm f4.5-5.6 APO EX DG | £839.99 |
| Sigma 300-800mm f5.6 EX DG | £4499.99 |

see web for latest availability

## TAMRON AF LENSES

| | |
|---|---|
| SP AF 17-35mm Di f2.8-4 | £329.99 |
| SP AF 28-75mm Di f2.8 | £259.99 |
| SP AF 90mm Di macro f2.8 | £289.99 |
| SP AF 180mm Di macro f3.5 | £549.99 |
| SP AF 200-500mm Di f5-6.3 | £669.99 |
| XR AF 28-300mm Di | £209.99 |

55-200mm Di II £129.99

18-200mm Di II £269.99

11-18mm Di II £379.99

NEW 17-50mm f2.8 Di II
NEW 28-200mm Di
NEW 70-300mm Di

see web for latest prices and availability

Merthyr Tydfil Tel: 01685 723419
Aberdare 01685 881711
Ebbw-Vale 01495 308640
Caerphilly 029 2085 2393
Bath 01225 446599

E&OE Prices are correct at time of going to press Opening times:

#1 IN WALES

YYePG Proudly Presents, Thx for Support

# "Smile!"

## "All the latest technology at unbeatable prices!"

## It's not just our website that makes us No.1!

**THE UK'S NUMBER ONE**
With over 1 million customers and 80,000 items in stock, we're No.1 online in the UK

**ALL THE INFO YOU'LL EVER NEED!**
Online Product Brochures, View Products in 3D and Super Close-Up, Product Guides - How to use your Equipment, Independent Reviews from Customers, Jargon Buster...
**...AND MANY MORE FEATURES ONLINE NOW!**

**PAY UP TO 30% LESS**
We check online and in-store to guarantee our prices are always up to 30% lower

**LOWEST PRICE GUARANTEE**
Find it cheaper and we'll beat the price by 20% of the difference!**

**AWARD WINNERS**
Empire Direct are winners of the National E-Commerce Award, as well as being ranked a Hitwise Top 10 Website and 'Boys Toys' Top 100 Worldwide website

**NATIONWIDE DELIVERY**
All orders are normally delivered within 2 days to any address on the UK mainland

**7 DAYS PEACE OF MIND**
Our Price Guarantee extends up to 7 days after you purchase your goods

**ALL THE TOP BRANDS**
From Aiwa to Zanussi you'll find all the best brands at Empire Direct

---

directlinx "To instantly find the offers online, enter code into the directlinx box on our website."

### Canon — Easy-to-Use, Affordable 4.0 Megapixel Digital Camera

• 4.0 Megapixel CCD • 4x Optical / 3.6x Digital Zoom • 20 Shooting Modes • Canon Visionary Technology • Large 1.8" LCD Screen • DIGIC with iSAPS Technology • PictBridge and Canon Direct Print Facility **Model No. PSA520**

directlinx 14G1

empire direct price £145.54 INC VAT
MAINLAND UK DELIVERY: £4.99

100 FREE PRINTS with this camera!

### Nikon — 6.1 Megapixel Digital SLR Camera with 18-55 Lens

• 3008 x 2000 Pixel Quality • Large 2" LCD Monitor • Continuous Shooting at 2.5fps • 3D Colour Matrix Metering II • Flash Speed Sync of 1/500 Sec. • Shoot up to 2000 Images on Single Charge **Model. D50-SIL-18-55**

100 FREE PRINTS with this camera!

directlinx 14G1

empire direct price £479.26 INC VAT
MAINLAND UK DELIVERY: £4.99

### Olympus — 8.0 Megapixel Digital SLR Camera with 14-45 Lens

• 3264 x 2448 Pixel Quality • Includes ZUIKO 14-45mm f/3.5-5.6 Lens • Full Frame Transfer CCD • TruePic TURBO Image Processor • Sliding Pop Up Built in Flash • Records onto CompactFlash or MicroDrive **Model. E300-LENSKIT**

empire direct price £423.59 INC VAT
MAINLAND UK DELIVERY: £4.99

directlinx 14G0

100 FREE PRINTS with this camera!

### Fujifilm — Stylish 4.1 Megapixel Digital Camera Bundle

• 2304 x 1728 Pixel Quality • 3.2x Optical / 3.6x Digital Zoom • 2.0" LCD Monitor • Web Camera • Movie with Audio • 80-400 ISO Range • Comes with xD-MP3 Player, 64Mb Picture Card and Case **Model. E500-BUNDLE**

empire direct price £149.83 INC VAT
MAINLAND UK DELIVERY: £4.99

directlinx 14CE

100 FREE PRINTS with this camera!

### Panasonic — Award Winning 4.0 Megapixel Digital Camera

• 2304 x 1728 Pixel Quality • 3x Optical / 4x Digital Zoom • 2.0" TMR LCD • Movie Mode (320x240 Pixels) • SD Memory Card Compatible • Adv. Mega Optical Image Stabiliser • Pict Bridge Compatible **Model. DMCLS1B**

100 FREE PRINTS with this camera!

directlinx 14CA

empire direct price £79.49 INC VAT
MAINLAND UK DELIVERY: £4.99

### Minolta — 6.1 Megapixel Digital SLR Camera with 18-70 Lens

directlinx 14D2

• 3008 x 2000 Pixel Quality • 2.5" Colour LCD Monitor • Anti-Shake for Blur Free Images • USB 2.0 Connection • Built-in Pop-Up Flash • CompactFlash / Microdrive Slot • 9 Local AF Areas with Focus Area Selection **Model No. DYNAX-4D-18-70**

100 FREE PRINTS with this camera!

empire direct price £435.33 INC VAT
MAINLAND UK DELIVERY: £4.99

### Minolta — Stylish 3.2 Megapixel Digital Camera

• 2048 x 1536 Pixel Quality • 3x Optical / 4x Digital Zoom • 1.6" LCD Monitor • Movie Mode (320x240 Pixels) • Audio Recording Mode • USB 2.0 Connection • PictBridge Compatible • SD Memory Card Compatible **Model. DIMAGE-XG-RED**

directlinx 14CC

empire direct price £89.22 INC VAT
MAINLAND UK DELIVERY: £4.99

100 FREE PRINTS with this camera!

### Olympus — 7.1 Megapixel Digital Camera

100 FREE PRINTS with this camera!

directlinx 14D3

Model No. MJU800DIG
Mainland UK Delivery £4.99

empire direct price £178.99 INC VAT

### Sony — 6.0 Megapixel Digital Camera

100 FREE PRINTS with this camera!

directlinx 14CE

Model No. DSCW50S
Mainland UK Delivery £4.99

empire direct price £167.21 INC VAT

# empiredirect.co.uk

...just a click away!

**Order On-Line at www.empiredirect.co.uk**

**Order By Phone: 0870 120 3657**
Mon - Fri: 9am - 8pm Sat: 9am - 6pm Sun: 10am - 5pm

APR 29.9%

* Example - Cash Price £449.99. Pay nil deposit and nothing for 6 months. Then either pay the cash price of £449.99 by the due date with nothing further to pay, or by 42 monthly instalments of £21.92 per month. Total payable £920.64 APR 29.9%. Finance is subject to status. Written quotations available on request. All prices are inclusive of VAT but exclude delivery. Stocks subject to availability. 100 FREE PRINT OFFER is valid until midnight 30th March 2006 - see website for full terms and conditions. **Low Price Guarantee applies providing the item is identical, brand new and in stock - see website for terms and conditions of price guarantee.

Yard Proudly Presents: The Fox Support

SRS LTD.
94 THE PARADE HIGH ST,
WATFORD, HERTS WD17 1AW
TEL: 01923 226602/220558
FAX: 01923 254543
E-mail:sales@srsmicrosystems.co.uk
OPEN MON-SAT 9 to 5.30 (6.30 on Thurs)

# DISCOUNT PHOTO

Website: www.srsmicrosystems.co.uk

SRS LTD.
344 RAYNERS LN, RAYNERS LN, NEAR PINNER, MIDDX HA5 5ED
TEL: 020 8866 4862 FAX: 020 8866 9685
E-mail:srsraynerslane@btconnect.com
OPEN MON-SAT 9 to 6. Closed Wed
(50 yds from RAYNERS LN TUBE)

★ ALL NEW UK STOCK ★ EXPERT ADVICE ★ EST'D 1981 ★ AIR CONDITIONED SHOWROOM ★
★ PHONE FOR BEST PRICES ON SLR'S, DIGITAL, LENSES ★

## CANON

| | |
|---|---|
| Canon Eos 350D | Call |
| Canon Eos 350D + 18-55- | Call |
| Canon Eos 20D | Call |
| Canon EOS 30D | Call |
| Canon Eos 5D | Call |
| EF 50/1.8 Mk II | £75 |
| EF 50/1.4 USM | £249 |
| EF-S 60/2.8 Macro | £289 |
| EF 85/1.8 USM | £269 |
| EF-S 10-22/3.5-4.5 USM | £529 |
| EF-S 17-85/4-5.6 IS | £429 |
| EF-S 18-55/3.5-5.6 (Unboxed) | £59 |
| EF 20-35/3.5-4.5 USM | £269 |
| EF 24-105/4 L IS USM | £699 |
| EF 28/2.8 | £125 |
| EF 28-135/3.5-5.6 IS USM | £329 |
| EF 55-200/4.5-5.6 USM | £179 |
| EF 70-300/4-5.6 IS USM | £379 |
| EF 90-300/4.5-5.6 | £135 |
| EF 100/2.8 USM Macro | £399 |
| BG-E1 (300D Grip) | £75 |
| BG-E3 (350D Grip) | £135 |
| NB-1LH Battery | £35 |
| NB-2LH Battery | £43 |
| NB-4L Battery | £29 |
| BP511a Battery | £45 |
| RS-80N3 | £38 |
| TC-80N3 | £95 |
| Angle Finder C | £145 |

## MINOLTA

| | |
|---|---|
| Dynax 5D + 18-70 | Call |
| Dynax 7D | Call |
| Dynax 7D + 17-35 | Call |
| 11-18/4.5-5.6 D | Call |
| 17-35/2.8-4 D | £189 |
| 18-70/3.5-5.6 D | £75 |
| 18-200/3.5-6.3 D | £339 |
| 24-85/3.5-4.5 | £169 |
| 24-105/3.5-4.5 D | £279 |
| 28-75/2.8 D | £289 |
| 28-80/3.5-5.6 D | £39 |
| 28-100/3.5-5.6 D (unboxed) | £49 |
| 28-105/3.5-4.5 | £149 |
| 35-80/4-5.6 (unboxed) | £19 |
| 50/1.7 | £99 |
| 50/2.8 Macro | £249 |
| Sigma 50/2.8 Macro | £149 |
| 75-300/4.5-5.6 D | £95 |
| 100/2.8 D Macro | £499 |
| RC-1000S Remote | £35 |
| RC-1000L Remote | £49 |
| OC 1100 Flash Cord | £50 |
| FS 1100 Flash Adaptor | £35 |
| OS 1100 Flash Shoe | £45 |
| 3600 HSD | £169 |
| 5600 HSD | £259 |
| Metz 44 AF4 Flash (Digital Compatible) | £149 |
| Metz 54 AF1 Flash (Digital Compatible) | £189 |
| NP-400 Battery (Dynax 5D/7D) | £40 |

## NIKON

| | |
|---|---|
| 17-55/2.8 IF ED AF-S DX | £949 |
| 18-55/3.5-5.6G IF ED AF-S DX (Unboxed) | £79 |
| 18-70/3.5-4.5 IF ED AF-S DX (Unboxed) | £189 |
| 18-200/3.5-5.6 VR AF-S DX | £499 |
| 24-85/3.5-4.5 AFS ED | £349 |
| 28-80/3.5-5.6 G | £49 |
| 50/1.8 D | £97 |
| 50/1.4 D | £219 |
| 55-200/4-5.6 G AF-S DX | £159 |
| 70-300/4-5.6 G Silver | £109 |
| 70-300/4-5.6 G Black (A Stock) | £99 |
| 70-300/4-5.6 D ED | £265 |
| D50 + 18-55 | £439 |
| D70S +18-70 | £749 |
| D200 | Call |
| D2HS | Call |
| D2X | Call |
| SB 600 | £179 |
| SB 800 | £289 |

## LOWEPRO

| | |
|---|---|
| Nova 2 AW | £33 |
| Nova 3 AW | £37 |
| Nova 4 AW | £40 |
| Nova 5 AW | £45 |
| Rezo 110 | £17 |
| Rezo 120 | £19 |
| Rezo 140 | £24 |
| Rezo 160 | £27 |
| Rezo 170 | £33 |
| Rezo 180 | £37 |
| Rezo 190 | £43 |
| Slingshot 100AW | £45 |
| Slingshot 200AW | £59 |
| Orion Trekker II | £43 |
| Photo Trekker AWII | £169 |

## MANFROTTO

| | |
|---|---|
| 190 MF3 | £185 |
| 190 MF4 | £199 |
| 055 MF3 | £209 |
| 055 MF4 | £219 |
| 055 CLB | £90 |
| 055 Pro | £109 |
| 055 Pro B | £109 |
| 190 D | £59 |
| 190 DB | £69 |
| 190 Pro | £79 |
| 190 Pro B | £85 |
| 714B | £55 |
| 718SHB | £60 |
| 718B | £65 |
| 115 | £25 |
| 029 | £65 |
| 484 RC2 | £39 |
| 488 RC2 | £64 |
| 322 RC2 | £89 |
| 222 | £65 |
| 141 RC | £52 |
| 329 RC4 | £79 |
| 460 MG | £45 |
| 229 | £139 |
| 701 RC Video | £76 |
| 128 RC | £59 |
| 410 | £130 |
| 405 | £259 |

## VELBON

| | |
|---|---|
| EL Carmagne 630 | £129 |
| Sherpa Pro CF531EL | £139 |
| CX-300 | £19 |
| CX-660 | £29 |
| CX-Mini | £19 |
| Luxi SF | £75 |
| Maxi SF | £85 |

## HOYA FILTERS (POST FREE)

The name on the world's finest filters massive range in stock from 24mm ∅ to 86mm ∅ all at rock bottom prices.

| | SKY or UV | NEW SHMC PRO-1 SLIM SKY or UV | CIRC' POLA | NEW SHMC PRO-1 SLIM CIRC' POLA | New Digital Protector or UV | Digital Circ Pola |
|---|---|---|---|---|---|---|
| 49mm | £7 | £21 | £22 | £52 | N/A | N/A |
| 52mm | £8 | £22 | £22 | £55 | N/A | N/A |
| 55mm | £9 | £23 | £24 | £59 | N/A | N/A |
| 58mm | £11 | £25 | £28 | £61 | £25 | £61 |
| 62mm | £14 | £28 | £37 | £69 | £28 | £69 |
| 67mm | £17 | £32 | £43 | £76 | £32 | £76 |
| 72mm | £21 | £36 | £43 | £97 | £36 | £97 |
| 77mm | £25 | £39 | £52 | £115 | £39 | £115 |
| 82mm | £36 | £45 | £69 | £154 | £45 | £154 |
| 86mm | £45 | N/A | £83 | N/A | N/A | N/A |

MOST COLOUR + EFFECTS FILTERS IN STOCK AT DISCOUNT PRICES

## NEW LOW MEMORY PRICES - ALL TOP QUALITY BRANDS!

| | |
|---|---|
| 64mb SD | £6.99* |
| 128mb SD | £8.99* |
| 256mb SD | £12.99* |
| 512mb SD | £18.99* |
| 1Gb SD | £24.99* |
| 64mb Smartmedia | £14.99* |
| 128mb Smartmedia | £24.99* |
| 128mb Compact Flash | £9.99* |
| 256mb Compact Flash | £12.99* |
| 512mb Compact Flash | £21.99* |
| 1Gb Compact Flash | £34.99* |
| 64mb XD | £7.99* |
| 128mb XD | £11.99* |
| 256mb XD | £18.99* |
| 512mb XD | £34.99* |
| 1Gb XD | £59.99* |
| 256mb Memory Stick Pro Duo | £22.99* |
| 512mb Memory Stick Pro Duo | £38.99* |
| 1Gb Memory Stick Pro Duo | £59.99* |
| Sandisk Ultra II 512mb CF | £28.99* |
| Sandisk Ultra II 1Gb CF | £47.99* |
| Sandisk Ultra II 2Gb CF | £79.99* |
| Sandisk Ultra II 4Gb CF | £152.99* |
| Sandisk Ultra II 512mb SD | £28.99* |
| Sandisk Ultra II 1Gb SD | £47.99* |
| Sandisk Ultra II 2Gb SD | £79.99* |
| Sandisk Extreme III 1Gb CF | £57.99* |
| Sandisk Extreme III 2Gb CF | £89.99* |
| Sandisk Extreme III 4Gb CF | £179.99* |

## Nikon D50 + 18-55mm

6.1 Megapixel
2" TFT Screen
2.5 Frames per second
Up to 1/4000 sec shutter speed
Iso 200-1600
Built in flash + hotshoe
SD Memory

£439

## Nikon D70S + 18-70mm

6.1 Megapixel
2" TFT Screen
3 Frames per second
Up to 1/8000 sec shutter speed
Iso 200-1600
Built in flash + hotshoe
CF Memory

£749

## DELKIN/HAMA BATTERIES

**100% Compatible and Superb Value!**

### CANON

| | |
|---|---|
| NB1-L | £17.99 |
| NB2-L | £17.99 |
| NB3-L | £13.99 |
| NB4-L | £17.99 |
| NB5-H | £14.99 |
| BP-511 | £17.99 |

### FUJI

| | |
|---|---|
| NP-40 | £15.99 |
| NP-60 | £14.99 |
| NP-80 | £14.99 |
| NP-100 | £15.99 |
| NP-120 | £19.99 |

### NIKON

| | |
|---|---|
| EN-EL1 | £16.99 |
| EN-EL2 | £1.99 |
| EN-EL3 | £16.99 |
| EN-EL5 | £16.99 |
| EN-EL7 | £22.99 |
| EN-EL8 | £15.99 |
| EN4 | £24.99 |

### KONICA/MINOLTA

| | |
|---|---|
| NP-1 | £19.99 |
| NP-200 | £14.99 |
| NP-400 | £27.99 |
| NP-500 | £14.99 |
| NP-700 | £14.99 |
| NP-800 | £14.99 |

### OLYMPUS

| | |
|---|---|
| Li-10B | £14.99 |
| Li-30B | £14.99 |
| BLM-1 | £18.99 |

### PENTAX

| | |
|---|---|
| D-Li7 | £19.99 |
| D-Li8 | £15.99 |

| | |
|---|---|
| Rechargeable CRV-3 battery + Charger | £26.99 |
| Rechargeable CRV-3 battery only | £14.99 |

PLEASE CALL FOR OUR LATEST PRICES AS THEY MAY HAVE CHANGED SINCE THIS ADVERT WAS FORMULATED

This is just a small selection of items carried from stock. We deal in the range of Photographic & Computer equipment new and secondhand (E&OE)

WE ACCEPT VISA, MASTERCARD, SWITCH, DELTA AND JCB CARDS. PLEASE MAKE CHEQUES PAYABLE TO SRS LTD. FOR MAIL ORDER: SMALL ITEMS POST FREE, MOST OTHERS £4-£8. PART EXCHANGE WELCOME. E & OE.

TYPE 40 Rugby Presents, The Rolling Stones

# londoncameraexchange

50 YEARS LCE 1956–2006


**Bath** 13 Cheap Street
**Tel: 01225 462234**
**Bournemouth** 95 Old Christchurch Rd
**Tel: 01202 556549**
**Bristol** Baldwin Street
**Tel: 0117 929 1935**
**Bristol** 53 The Horsefair
**Tel: 0117 9276185**
**Chester** 9 Bridge Street Row
**Tel: 01244 326 531**
**Chesterfield** 1a South Street
**Tel: 01246 211891**
**Cheltenham** 10-12 The Promenade
**Tel: 01242 519851**
**Colchester** 12 Eld Lane
**Tel: 01206 573444**
**Derby** 17 Sadler Gate
**Tel: 01332 348644**
**Exeter** 174 Fore Street
**Tel: 01392 279024**
**Fareham** 135 West Street
**Tel: 01329 236441**
**Gloucester** 12 Southgate Street
**Tel: 01452 304513**
**Guildford** 8/9 Tunsgate
**Tel: 01483 504040**
**Leamington** Clarendon Avenue
**Tel: 01926 886166**
**London** 98 The Strand
**Tel: 020 7379 0200**
**Lincoln** 6 Silver Street
**Tel: 01522 514131**
**Manchester** 37 Parker St.
**Tel: 0161 236 5819**
**Norwich** 12 Timber Hill
**Tel: 01603 612 537**
**Nottingham** 7 Pelham Street
**Tel: 0115 9417486**
**Paignton** 71 Hyde Road
**Tel: 01803 553077**
**Plymouth** 10 Frankfort Gate
**Tel: 01752 664894**
**Portsmouth** Cascades Centre
**Tel: 023 92839933**
**Reading** 7 Station Road
**Tel: 0118 9592149**
**Salisbury** 6 Queen Street
**Tel: 01722 335436**
**Southampton** 10 High Street
**Tel: 023 8022 1597**
**Southampton** 11 Civic Centre Road
**Tel: 023 8033 1720**
**Taunton** 6 North Street
**Tel: 01823 259955**
**Winchester** 15 The Square
**Tel: 01962 866203**
**Worcester** 8 Pump Street
**Tel: 01905 22314**


Most branches open 9am-5.30pm Mon–Sat. Please check your local store for availability before making a special journey.

**UK Mail Order** Next day delivery available from all LCE branches Postage & Insurance £7 for most items.

E. & O. E. Prices quoted include VAT @ 17.5%. Prices subject to change. All Goods subject to availability

# Zoom in on Panasonic

## LUMIX cameras at LCE

## LUMIX DMC-FZ7

- 6 Megapixel CCD
- Advanced Mega Optical Image Stabilizer
- Manual focus and manual zoom ring
- Leica 12x optical zoom DC Vario-Elmarit lens
- Large 2.5-inch ultra-bright diagonal LCD

**NEW IN STOCK**

**£329.99**

Available in black or silver finish

Part exchange welcome

## LUMIX DMC-FX01

- 6 Megapixel CCD
- Optical Image Stabilizer
- Leica 3.6x optical zoom DC Vario-Elmarit lens with 28mm (equiv.) wide-angle
- Large 2.5-inch bright diagonal LCD

**POCKET ROCKET**

**£299.99**

new!

Available in black or silver finish

## LUMIX DMC-TZ1

- 5 Megapixel CCD
- Optical Image Stabilizer
- Leica 10x optical zoom DC Vario-Elmarit lens with 28mm (equiv.) wide-angle
- Large 2.5-inch bright LCD

**COMPACT & POWERFUL**

**£299.99**

new!

Available in black, blue or silver finish

## LUMIX DMC-FZ30

- 8 Megapixel CCD
- Optical Image Stabilizer
- Leica 12x optical zoom DC Vario-Elmarit lens (35–420mm equiv.)
- 2-inch bright angle-free LCD

**CATCH THE ACTION**

**£449.99**

## ...or take in a movie

### GS27B MiniDV

World's most powerful optical 30x zoom.

new!

**£249.99**

### VDR100B DVD

Worlds most powerful 30x optical zoom and Super Image Stabilizer

**£349.99**

new!

### VDR250B DVD

3CCD for highest Image quality plus 2.3MP stills.

**£549.99**

new!

# part-exchange welcome

YYePG Proudly Presents, Thx for Support

# www.LCEgroup.co.uk

# abc DIGITAL CAMERAS

**0845 67 88 122** **www.abc-digital-cameras.co.uk**

**Lines open 8:45am-5:45pm Monday - Saturday**

ABC Digital Cameras offers:

• FREE NEXT DAY DELIVERY ** • UK STOCK • SUPERB SERVICE • FREE EXPERT ADVICE • LOW PRICES •

We aim to be one of the cheapest dealers in the UK. Should you find a cheaper price for UK stock please call us and we will try to match or beat it!

# BEFORE YOU BUY ELSEWHERE....

**see our website for latest LOW bundle Prices with Superb Service, Free Expert Advice & Free Delivery****

## • DIGITAL CAMERAS •

further discounted bundles available • full specifications of all cameras available on website • Free expert advice • low prices • free next working day delivery to UK Mainland **

### • Canon •

| | |
|---|---|
| PowerShot A410 | £99.99 |
| PowerShot A430 New | £136.98 |
| PowerShot A520 | £149.99 |
| PowerShot A520 + Hama Charger + Batteries + 256MB | £189.99 |
| PowerShot A530 New | £161.98 |
| PowerShot A540 New | £199.98 |
| Digital IXUS i zoom | £189.99 |
| Digital IXUS 60 New | £229.99 |
| Digital IXUS 60+DCC 60 case | £244.99 |
| Digital IXUS 65 New | £269.99 |
| Digital IXUS 65+DCC 60 case | £284.99 |
| Digital IXUS 55 | £198.65 |
| Digital IXUS Wireless New | £299.99 |
| Digital IXUS 750 | £279.99 |
| Digital IXUS 750 + DCC 70 Case + Fuji 256MB SD Card | £326.99 |
| Digital IXUS 800 IS New | £306.98 |
| Digital IXUS 800 IS + DCC70 | £319.99 |
| PowerShot S80 New | £329.99 |
| PowerShot S2 IS | See Web |
| PowerShot S3 IS New | See Web |
| EOS 350D Body | £469.99 |
| EOS 350D +Tamron 18-200 | £735.00 |
| EOS 350D + 18-55mm lens | £498.95 |
| EOS 30D New | Price Match |
| EOS 30D + 18-55mm New | £1038.00 |
| EOS 5D | £1799.00 |
| EOS 1D Mk II **N** | £2385.00 |
| EOS 1DS Mk II | £4599.00 |

### • Casio •

| | |
|---|---|
| Exilim EX S500 Grey | £227.99 |
| Exilim EX S600 Silver New | £234.99 |
| Exilim EX S600 Mistral Blue | £234.99 |
| Exilim EX S600 Latin Orange | £234.99 |
| Exilim EX Z500 | £214.99 |
| Exilim EX Z600 New | See Web |
| Exilim EX Z60 New | See Web |
| Exilim EX Z850 New | £275.00 |

### • FujiFilm •

| | |
|---|---|
| FinePix A400 New | £99.99 |
| FinePix A500 New | See Web |
| FinePix A600 New | See Web |
| FinePix S5600 | £215.99 |
| FinePix F10 | £199.99 |
| FinePix F10 +Case +256MB | £229.99 |
| FinePix F11 New | £249.99 |
| FinePix F11 + Case + 256MB | £282.49 |
| FinePix V10 New | See Web |
| FinePix F470 New | See Web |
| FinePix F30 New | See Web |
| FinePix S20 Pro | £234.99 |
| FinePix s9500 | £376.00 |
| FinePix S3 Pro Body | £988.05 |

### • Hewlett Packard •

| | |
|---|---|
| HP Photosmart M22 | £79.99 |
| HP Photosmart 422 Studio | £139.99 |
| HP Photosmart M517 | £124.99 |
| HP Photosmart R817 | £155.99 |
| HP Photosmart R818 | £197.00 |
| HP Photosmart R818 + Photosmart 335 Printer | £269.99 |

New range of HP digital cameras coming soon - Phone/See web for details

### • Kodak •

| | |
|---|---|
| C663 New | See Web |
| Z650 New | See Web |
| V603 New | See Web |
| Z612 New | See Web |
| Z740 + Printer Dock | £234.98 |
| V570 New | £229.99 |
| P850 | £289.99 |
| P880 | £349.99 |

### • Nikon •

| | |
|---|---|
| Coolpix L4 New | See Web |
| Coolpix L3 New | See Web |
| Coolpix L2 New | See Web |
| Coolpix P4 New | See Web |
| Coolpix P3 New | See Web |
| Coolpix P2 New | See Web |
| Coolpix S3 | See Web |
| Coolpix S4 | See Web |
| Coolpix S5 New | See Web |
| Coolpix S6 New | See Web |
| D50 Body | £344.99 |
| D50 + 18-55mm | £429.95 |
| D50+18-55mm+55-200mm | £579.95 |
| D50 + 18-70mm | £529.99 |
| D70s | See Web |
| D70s + 18-70mm | See Web |
| D200 New | See Web |
| D2Hs | £1999.00 |
| D2X | £2785.00 |

### • Olympus •

| | |
|---|---|
| FE-115 New | See Web |
| FE-130 New | See Web |
| FE-140 New | See Web |
| FE-140 + Hama Batts + charger + 256MB xD | £165.99 |
| FE-150 New | See Web |
| MJU 700 New | See Web |
| MJU 810 New | See Web |
| MJU 720SW New | See Web |
| SP 320 New | See Web |
| MJU Mini Digital S | £159.99 |
| MJU Digital 600 Blue | £174.99 |
| MJU Digital 600 Silver | £174.99 |
| MJU Digital 800 Blue | £259.99 |
| MJU Digital 800 Silver | £259.99 |
| MJU Digital 800 + Olympus Leather Case +256MB | £299.99 |
| SP-350 New | £239.99 |
| SP-350 + Olympus case | £254.99 |
| SP-500 Ultra Zoom New | £216.50 |
| E-500+14-45mm lens New | £494.99 |
| E-500+14-45mm+40-150mm | £609.99 |
| E-330 New | See Web |
| E-330 + 14-45mm New | See Web |

### • Pentax •

| | |
|---|---|
| Optio WPi | £194.99 |
| Optio E10 New | £139.99 |
| Optio S60 | £152.99 |
| Optio S6 | £179.99 |
| Optio S5z | £171.99 |
| Optio SVi | £199.99 |
| Optio W10 New | £199.99 |
| Optio T10 New | See Web |
| * ist DL Black | £449.00 |
| * ist DL + 18-55mm | £529.00 |

### • Ricoh •

| | |
|---|---|
| Caplio RR 530 New | £126.99 |
| Caplio R4 Silver New | See Web |
| Caplio R4 Black New | See Web |
| Caplio GX8 | £259.99 |
| Caplio GX8 + Hama Charger + Batteries + 256MB | £379.99 |
| Caplio 400G New | £314.99 |
| Caplio GR Digital New | See Web |

### • Sigma •

| | |
|---|---|
| SD10 Body | £529.99 |

### • Sony •

| | |
|---|---|
| DSC S600 New | £149.99 |
| DSC P200S | See Web |
| DSC T5 | £219.99 |
| DSC T7 | £259.99 |
| DSC T9 New | £263.50 |
| DSC M2 | £328.99 |
| DSC W5 | £149.99 |
| DSC W15 | £169.99 |
| DSC W7 | £209.99 |
| DSC W17 | £199.99 |
| DSC W30 New | See Web |
| DSC W50 New | See Web |
| DSC W70 New | See Web |
| DSC W100 New | See Web |
| DSC N1 New | £309.99 |
| DSC N1 + 512 MB Pro DUO | £349.99 |
| DSC H2 New | See Web |
| DSC R1 New | £546.97 |
| DSC R1 + Sony LCS RA case | £574.99 |

### • Vivitar •

| | |
|---|---|
| Vivicam 4345 New | £66.68 |
| Vivicam 5385 New | £90.99 |

See website for money saving bundles on ALL digital cameras

**LOW** Prices & Virtually Everything **IN STOCK!!**

## • SLR LENSES •

### • Canon •

| | |
|---|---|
| EF 14mm f/2.8L USM | £1,449.00 |
| EF 15mm f/2.8 Fisheye | £499.00 |
| EF 20mm f/2.8 USM | £329.00 |
| EF 24mm f/1.4L USM | £919.00 |
| EF 24mm f/2.8 | £309.00 |
| EF 28mm f/1.8 USM | £319.00 |
| EF 28mm f/2.8 | £134.00 |
| EF 35mm f/1.4L USM | £919.00 |
| EF 35mm f/2.0 | £187.00 |
| EF 50mm f/1.4 USM | £244.00 |
| EF 50mm f/1.8 | £73.00 |
| EF 50mm f/2.5 Macro | £196.00 |
| EF-S 60mm f/2.8 Macro | £281.00 |
| MP-E 65mm f/2.8 | £719.00 |
| EF 85mm f/1.2L USM | £1,199.00 |
| EF 85mm f/1.8 USM | £269.00 |
| EF 100mm F2 USM | £310.00 |
| EF 100mm f/2.8 USM Macro | £389.00 |
| EF 135mm f/2.0L USM | £719.00 |
| EF 135mm f/2.8 Soft Focus | £235.00 |
| EF 180mm f/3.5L USM Macro | £1,019.00 |
| EF 200mm f/2.8L USM/2 | £522.00 |
| EF 300mm f/2.8L USM IS | £3,099.00 |
| EF 300mm f/4.0 L USM IS | £899.00 |
| EF 400mm f/2.8L USM IS | £5,279.00 |
| EF 400mm f/4.0 DO L USM IS | £3,949.00 |
| EF 400mm f/5.6L USM | £859.00 |
| EF 500mm f/4.0L USM IS | £4,399.00 |
| EF 600mm f/4.0L USM IS | £5,799.00 |
| EF 10-22mm f/3.5-4.5 USM | £514.00 |
| EF 16-35mm f/2.8L USM | £999.00 |
| EF 17-40mm f/4.0L USM | £533.00 |
| EF-S 17-55mm f/2.8 IS USM | See Web |
| EF-S 17-85mm f/4-5.6 IS USM | £400.00 |
| EF-S 18-55mm f3.5-f5.6 No Box | £50.00 |
| EF 20-35mm f/3.5-4.5U | £284.00 |
| EF 24-70mm f/2.8L USM | £889.00 |
| EF 24-85mm f/3.5-4.5 USM | £244.00 |
| EF 24-105mm f/4 L IS USM | £681.00 |
| EF 28-90mm f/4.0-5.6S No Box | £89.00 |
| EF 28-105mm f/3.5-4.5 U/2 | £184.00 |
| EF 28-105mm f/4-5.6 USM | £147.00 |
| EF 28-105mm f/4-f5.6 | £108.00 |
| EF 28-135mm f/3.5-5.6 U IS | £329.00 |
| EF 28-200mm f/3.5-5.6 USM | £329.00 |
| EF 28-300mm f/3.5-5.6L IS | £1,569.00 |
| EF 55-200mm f/4.5-5.6 II U | £149.00 |
| EF 70-200mm f/2.8L IS USM | £1,299.00 |
| EF 70-200mm f/4.0L USM | £478.00 |
| EF 70-300mm f/4.5-5.6 DO IS | £839.00 |
| EF 70-300mm f/4.0-5.6 U IS | £369.00 |
| EF 75-300mm f/4.0-5.6 U III | £169.00 |
| EF 90-300mm f/4.5-5.6 USM | £169.00 |
| EF 100-400mm f/4.5-5.6L IS | £1,089.00 |
| TSE 45mm f/2.8 | £899.00 |
| TSE 90mm f/2.8 | £899.00 |
| EF 1.4x II extender | £229.00 |
| EF 2x II extender | £229.00 |

### • Nikon •

| | |
|---|---|
| 10.5mm f/2.8G Fisheye | £468.00 |
| AF 14mm f/2.8 D | £1,089.00 |
| AF 18mm f/2.8D | £1145.00 |
| AF 20mm f/2.8 D | £485.00 |
| AF 24mm f/2.8D | £325.00 |
| AF 28mm f/1.4D | £1,429.00 |
| AF 28mm f/2.8 | £189.00 |
| AF 35mm f/2 D | £225.00 |
| AF 50mm f/1.4D | £212.00 |
| AF 50mm f/1.8 D | £97.00 |
| AF 60mm f/2.8 Micro | £359.00 |
| AF 85mm f/1.8D | £321.00 |
| AF 85mm f/1.4D IF | £775.00 |
| AF 105mm f/2.8D Micro | £639.00 |
| AF-S 105mm f2.8G IF ED VR | £549.00 |
| AF 105mm f/2 DC | £739.00 |
| AF 135mm f/2D DC | £915.00 |
| AF 180mm f/2.8 IF ED | £559.00 |
| AF 200mm f/4D IF ED Micro | £1,049.00 |
| AF-S 200mm f/2G IF ED VR | £2,599.00 |
| AF-S 300mm f/4 IF ED | £865.00 |
| AF-S 300mm f/2.8G IF-ED VR | £3,199.00 |
| AF-S 400mm f/2.8 II IF ED | £5999.00 |
| AF-S II 500mm f4 IF-ED Bk | £4,965.00 |
| AF-S 600mm f/4 II IF ED | £6275.00 |
| AF-S 12-24mm f/4G DX IF ED | £709.00 |
| AF-S 17-55mm f/2.8G IF-ED D | £949.00 |
| AF 18-35mm f/3.5-4.5 D | £335.00 |
| AF-S 18-55mm f/3.5-5.6 DX | £90.00 |
| AF-S 18-70mm f/3.5-4.5 | £165.00 |
| AF-S 18-200mm f/3.5-5.6 VR | See Web |
| AF-S 24-85mm f/3.5-4.5G ED | £239.00 |
| AF 24-85mm f/2.8-f4D | £229.99 |
| AF-S 24-120mm f/3.5-5.6G VR | £436.00 |
| AF-S 28-70mm f/2.8D IF ED | £1,148.00 |
| AF 28-100mm f/3.5-5.6G | £79.00 |
| AF 28-105mm f/3.5-4.5 D IF | £295.00 |
| AF 28-200mm f/3.5-5.6G ED B | £240.00 |
| AF 28-200mm f/3.5-5.6G ED S | £175.00 |
| AF 35-70mm f2.8D | £499.00 |
| AF-S 55-200mm f/4-5.6 DX | £149.00 |
| AF 70-180mm f/4.5-5.6D ED | £811.00 |
| AF 70-300mm f/4-5.6D ED | £264.00 |
| AF 70-300mm f/4-5.6G | £139.99 |
| AF-S 70-200mm f/2.8G VR | £1,185.00 |
| AF 80-400mm f/4.5-5.6D VR | £1,019.00 |
| AF-S 200-400mm f/4G IF-ED | £4,299.00 |
| TC-14E II 1.4x Converter | £325.00 |
| TC-17E II 1.7x Converter | £299.00 |
| TC-20E II 2.0x Converter | £279.00 |

For Nikon Filters and lens hoods - please phone or visit our website

### • Sigma •

available in Canon/ Nikon fit

| | |
|---|---|
| 8mm f4 EX DG | £485.00 |
| 14mm f2.8EX | £539.00 |
| 15mm f2.8 Fish Eye DG | See Web |
| 20mm f1.8 EX DG | See Web |
| 24mm f1.8 EX DG | See Web |
| 28mm f1.8 EX DG | See Web |
| 30mm f1.4 EX DC HSM | £269.99 |
| 50mm f2.8 EX DG Macro | £193.99 |
| 105mm f2.8 EX DG Macro | £279.00 |
| 150mm f2.8 EX DG HSM | £438.00 |
| 180mm f3.5 EX Macro DG | £464.00 |
| 300mm f2.8 APO EX DG HSM | £1,594.00 |
| 500mm f4.5 APO EX DG HSM | £2,549.00 |
| 800mm f5.6 APO EX DG HSM | £3,794.00 |
| 10-20mm f4-5.6 EX DC HSM | £319.99 |
| 12-24mm f4.5-5.6 EX DG | £437.99 |
| 15-30mm f3.5-4.5 EX DG | £299.00 |
| 17-35mm f2.8-4 EX DG | £299.00 |
| 17-70mm f/2.8-4.5 DC Macro | £239.99 |
| 18-50 f2.8 EX DC | £309.00 |
| 18-50mm f3.5-5.6 DC | £79.00 |
| 18-125mm f3.5-5.6 DC | £189.00 |
| 18-200mm f3.5-6.3 DC | See Web |
| 20-40mm f2.8 EX DG | See Web |
| 24-60mm f2.8 EX DG | £274.00 |
| 24-70mm f3.5-5.6 HF | See Web |
| 24-70/2.8 EX DG MACRO | £279.88 |
| 24-135mm f2.8-4 ASP IF | £239.99 |
| 28-70mm f2.8-4 ASP DG | See Web |
| 28-70mm f2.8 EX DG | See Web |
| 28-105mm f2.8-4 | See Web |
| 28-105mm f2.8-4 DG | £165.00 |
| 28-105mm 3.8-5.6 UCIII IF | See Web |
| 28-135mm f3.8-5.6 IF | £99.99 |
| 28-200mm f3.5-5.6 ASP DG | £169.99 |
| 28-300 f3.5-6.3 DG | £188.99 |
| 50-500mm f4-6.3 APO EX DG | £718.99 |
| 55-200mm f4-5.6 DC | £109.00 |
| 70-200mm f2.8 APO EX DG HSM | £595.99 |
| 70-300mm f4-5.6 APO DG Macro | £159.00 |
| 70-300mm f4-5.6 DG Macro | £99.00 |
| 80-400mm f4.5-5.6 EX DG OS | £829.00 |
| 100-300mm f4 EX IF DG APO | £659.00 |
| 120-300mm f2.8 EX APO DG | £1,671.00 |
| 135-400mm f4.5-5.6 APO DG | £409.00 |
| 170-500mm f5-6.3 APO DG | £539.00 |
| 300-800mm f5.6 EX DG APO | See Web |
| 2x APO EX DG teleconverter | £179.99 |

For Sigma filters, plesae phone or visit our website

### • Olympus E-System •

| | |
|---|---|
| 8mm f/3.5 Fisheye Zuiko ED | £549.99 |
| 35mm f3.5 macro | £149.99 |
| 50mm f/2.0 ED Macro | £349.00 |
| ED 150mm f/2.0 | £1,949.00 |
| 300mm f/2.8 ED | £4,499.00 |
| 7-14mm f4 Zuiko ED | £1,195.00 |
| 11-22mm f/2.8-3.5 | £549.00 |
| 14-35mm f/2.0 | See Web |
| 14-54mm f/2.8-3.5 | £449.00 |
| 18-180mm f/3.5-6.32 ED | £349.99 |
| 35-100mm f/2.0 ED | £1,699.00 |
| 40-150mm f/3.5-4.5 | £149.99 |
| 50-200mm f/2.8-3.5 | £699.00 |
| 90-250mm f/2.8 ED | £3,999.00 |
| EC-14 1.4x Tele Converter | £319.00 |
| EX-25 Extension Tube | £99.99 |
| PRF-40.5 Protection Filter | £29.99 |
| MF1 OM Adaptor | £99.99 |

See our website for prices & info. about the new Sigma lenses for the Olympus Four Thirds system

### • Pentax •

| | |
|---|---|
| 14mm f2.8 DA ED IF SMC | £599.00 |
| 40mm f2.8 DA SMC | £219.00 |
| 10-17mm F3.5-4.5 ED (IF) | £329.99 |
| 12-24mm F4.0 ED/AL IF | £699.99 |
| 16-45mm f/4 ED AL DA | £309.99 |
| 18-55mm f3.5-5.6 DA AL SMC | £99.00 |
| 24-90mm f/3.5-4.5 FA AL [IF] | £319.99 |
| 28-80mm f/3.5-5.6 FAJ SMC | £109.99 |
| 50-200mm f/4-5.6 DA | £169.00 |
| 75-300mm f/4.5-5.8 FAJ AL | £139.99 |

### • Tamron •

available in Canon/ Nikon fit

| | |
|---|---|
| AF 11-18mm f/4.5-5.6 Di-II | £284.00 |
| AF 17-35mm f/2.8-4 Di LD IF | See Web |
| SP AF 17-50mm f/2.8 XR Di II | See Web |
| AF 18-200mm f/3.5-6.3 Di-II | See Web |
| AF 90mm f/2.8 Di Macro | See Web |
| AF 200-500mm f/5-6.3 Di LD IF | See Web |
| AF 28-300mm f/3.5-6.3 XR Di | See Web |
| 28-200mm f/3.8-5.6 XR Di Asp | See Web |
| 70-300mm F/4-5.6 Di LD Macro | See Web |

### • Hoya Filters •

| | |
|---|---|
| 52mm UV | £10.37 |
| 52mm Skylight 1B | £10.37 |
| 52mm SHMC Pro 1 Digital UV | £26.00 |
| 55mm UV | £11.53 |
| 55mm Skylight 1B | £11.53 |
| 55mm SHMC Pro 1 Digital UV | £27.04 |
| 58mm UV | £13.33 |
| 58mm Skylight 1B | £13.33 |
| 58mm SHMC Pro 1 Digital UV | £28.89 |
| 62mm UV | £16.76 |
| 62mm Skylight 1B | £16.76 |
| 62mm SHMC Pro 1 Digital UV | £32.59 |
| 67mm UV | £21.39 |
| 67mm Skylight 1B | £21.39 |
| 67mm SHMC Pro 1 Digital UV | £35.86 |
| 72mm UV | £26.84 |
| 72mm Skylight 1B | £26.84 |
| 72mm SHMC Pro 1 Digital UV | £40.25 |
| 77mm UV | £31.60 |
| 77mm Skylight 1B | £31.60 |
| 77mm SHMC Pro 1 Digital UV | £44.75 |

## • MEMORY CARDS •

### • Compact Flash •

| | |
|---|---|
| Fujifilm 128 MB 20x | £14.00 |
| Fujifilm 256 MB 20x | £20.00 |
| Fujifilm 256 MB 40x | £22.00 |
| Fujifilm 512 MB 20x | £30.00 |
| Fujifilm 512 MB 40x | £30.00 |
| Fujifilm 1 GB 40x | £48.00 |
| Fujifilm 1 GB 133x | £75.00 |
| Fujifilm 2 GB 133x | £125.00 |
| SanDisk 256 MB | £15.00 |
| SanDisk 512 MB | £29.00 |
| SanDisk 512 MB Ultra II | £30.00 |
| SanDisk 1 GB | £39.00 |
| SanDisk 1 GB Ultra II | £44.00 |
| SanDisk 1 GB Extreme III | £55.00 |
| SanDisk 2 GB Ultra II | See Web |
| SanDisk 2 GB Extreme III | £90.00 |
| SanDisk 4 GB Ultra II | See Web |
| SanDisk 4 GB Extreme III | £168.00 |

See Website for latest for latest low memory card prices

### • Memory Stick •

| | |
|---|---|
| Sony 128 MB | £17.00 |
| Sony 256 MB Pro S | £25.00 |
| Sony 256 MB Pro N | £34.00 |
| Sony 512 MB Pro S | £42.00 |
| Sony 512 MB Pro N | £50.00 |
| Sony 1 GB Pro S | £46.00 |
| Sony 1 GB Pro N | £80.00 |
| Sony 2 GB Pro S | £90.00 |
| Sony 2 GB Pro N | £140.00 |
| SanDisk 1 GB Pro | £46.00 |
| Sony 4 GB Pro N | £250.00 |

### • Memory Stick Duo •

| | |
|---|---|
| Sony 128 MB DUO | £17.00 |
| Sony 256 MB Pro DUO S | £25.00 |
| Sony 256 MB Pro DUO N | £34.00 |
| Sony 512 MB Pro DUO S | £42.00 |
| Sony 512 MB pro DUO N | £50.00 |
| Sony 1 GB Pro DUO S | £46.00 |
| Sony 1 GB Pro DUO N | £80.00 |
| Sony 2 GB Pro DUO S | £90.00 |
| Sony 2 GB Pro DUO N | £140.00 |

N = High Speed/ S = Standard

### • Secure Digital •

| | |
|---|---|
| Fujifilm 256 MB | £18.00 |
| Fujifilm 256 MB 60x | £24.00 |
| Fujifilm 512 MB | £26.00 |
| Fujifilm 512 MB 60x | £40.00 |
| Fujifilm 512 MB 133x | £60.00 |
| Fujifilm 1 GB | £45.00 |
| Fujifilm 1 GB 60x | £52.00 |
| Fujifilm 1 GB 133x | £100.00 |
| SanDisk 256 MB | £14.50 |
| SanDisk 512 MB | £24.00 |
| SanDisk 512 MB Ultra II | £32.00 |
| SanDisk 1 GB | £41.00 |
| SanDisk 1 GB Ultra II | £50.00 |
| SanDisk 1 GB Extreme III | £58.00 |

### • xD Picture Card •

| | |
|---|---|
| Fujifilm 128 MB | £18.00 |
| Fujifilm 256 MB | £20.00 |
| Fujifilm 512 MB | £40.00 |
| Fujifilm 1 GB (M type) | £55.00 |
| Olympus 256 MB | £25.00 |
| Olympus 512 MB | £40.00 |
| Olympus 1 GB | £55.00 |

See website for New High Speed xD

## • ACCESSORIES •

### • Multimedia Viewers •

| | |
|---|---|
| Epson P2000 (40GB) | £309.99 |
| Epson P4000 (40GB) | £429.00 |

### • Underwater Housings •

| | |
|---|---|
| Sony MPK NA | £124.00 |
| Sony MPK WA | £124.99 |
| Canon WPDC80 (IXUS 750) | £129.00 |

### • Card Readers •

| | |
|---|---|
| SanDisk 12 in 1 Reader | £24.99 |

### • Other Accessories •

| | |
|---|---|
| Adobe Elements 4.0 (Win) | £49.99 |
| Canon BG-E3 battery Grip | £89.99 |
| Canon NB-2LH battery | £38.00 |
| Canon DCC-70 Case(Ixus 750) | £10.50 |
| Canon Speedlite 430EX | £169.99 |
| Canon Speedlite 580EX | £299.99 |
| Canon BJ i9950 printer | £362.95 |
| Canon DCC 90 case (S2 IS) | £9.99 |
| Leather Case for Fuji F10/F11 | £9.50 |
| HP 422 Photo Studio | £139.99 |
| HP M517 | £124.99 |
| Nikon SB 600 Speedlite | £189.00 |
| Nikon SB 800 Speedlite | £289.00 |
| Sony PCK L30 | £10.00 |
| Sony LCS THEB case (T7) | £29.99 |
| Sony LCS CSG case | £18.00 |
| Olympus FL-36 flashgun | £119.99 |
| Sony LCS NA leather case (N1) | £34.99 |
| Sony LCS NB soft case (N1) | £21.99 |
| Sony VF 67CP Filter | £59.99 |
| Lowepro Slingshot 200AW | £55.50 |

### • Everything Else! •

We have over 2000 items on our website so visit us online or phone for more low prices on all items + Lowepro/ Crumpler/ Tamrac/ Hoya/ Kenko/ Jobo/ Manfrotto/ Printers

## • CAMCORDERS •

Below is our range of camcorders. Please phone or see our website for our latest LOW Prices

### • Canon •

- MV800
- MV900 New
- MV930 New
- MV960 New
- MVX4i
- MVX300
- MVX350i
- DC10
- DC20
- XM2

### • Sony •

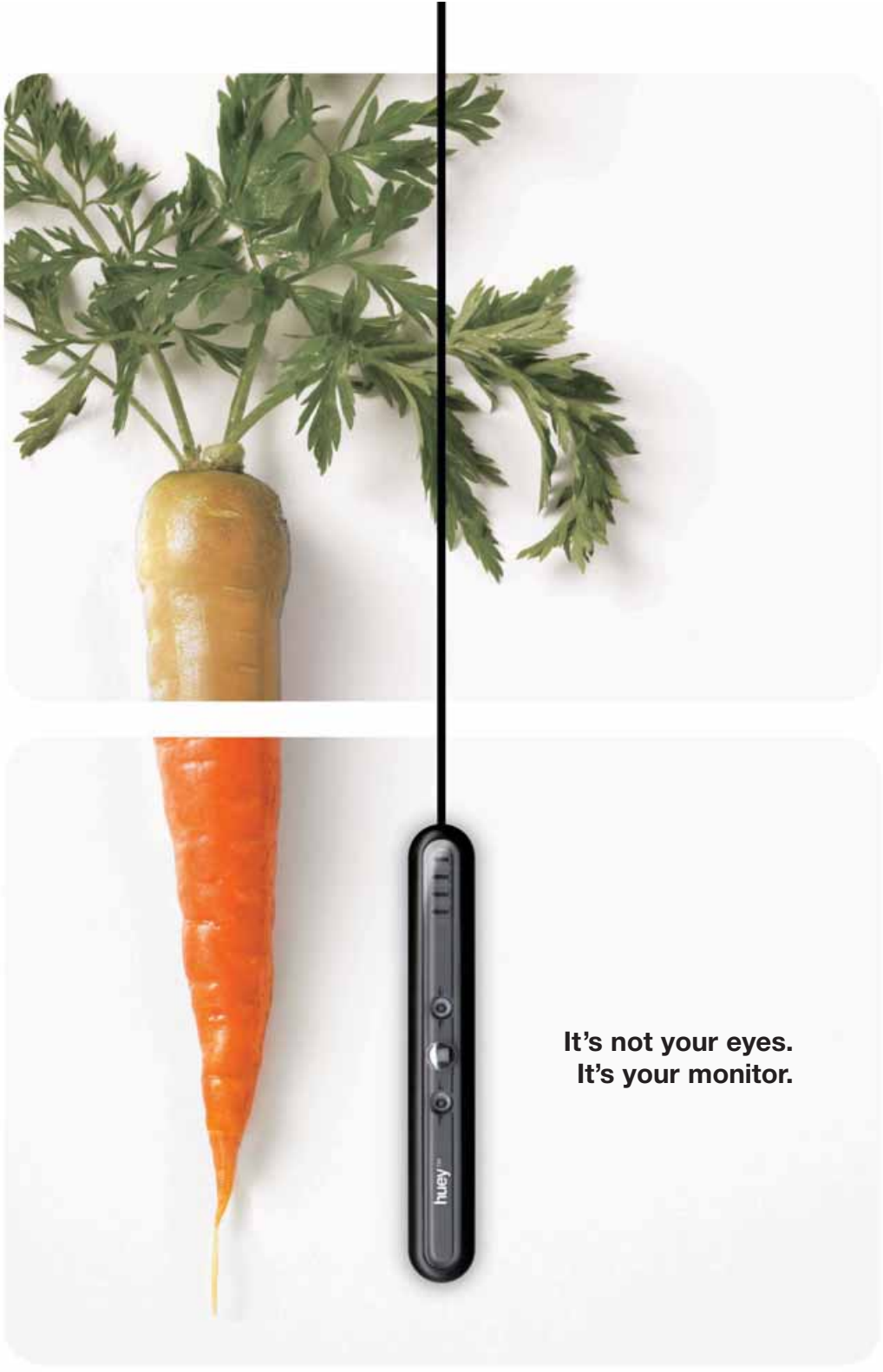
- DCR HC19E
- DCR HC22E
- DCR HC24E New
- DCR HC32E
- DCR HC32E
- DCR HC35E New
- DCR HC44E New
- DCR HC46E New
- DCR HC94E New
- DCR HC96E New
- DCR DVD92E
- DCR DVD7E
- DCR DVD105E New
- DCR DVD202E
- DCR DVD203E
- DCR DVD205E
- DCR DVD403E
- DCR DVD404E
- DCR DVD405E New
- DCR DVD505E
- DCR PC53E
- DCR PC55ES
- DCR PC55EB Black
- DCR SR90 HDD New
- HDR HC1E HDV
- HDR FX1E HDV

**call us on our order hotline 0845 070 90 80 for friendly help & expert advice** Open Mon-Sat 8.45am - 5.45pm

YYePG Proudly Presents, Thx for Support

**Visit us at www.abc-digital-cameras.co.uk**

** Delivery to UK mainland is FREE for orders over £100. For orders under £100, delivery from £2.50.
All prices include VAT @ 17.5%. Prices fluctuate so please see website for our latest low prices




**It's not your eyes.**
**It's your monitor.**

# huey™

MONITOR COLOR CORRECTION

**Introducing huey. The first step to great prints.** It automatically corrects monitor colour so each hue is more vibrant, photographs are more accurate and movies and games are more life-like. A unique ambient light feature even adjusts for room lighting. You might not know your monitor is off, but you'll notice the difference once it's fixed.

PANTONE®
/gretagmacbeth

Colour Confidence

## www.colourconfidence.com

**ORDER DIRECT FROM OUR WEBSITE OR FREEPHONE: 0800 977 4167**

**RESELLER ENQUIRIES INVITED**

YYePG Proudly Presents, Thx for Support

PANTONE®, huey™ and other Pantone, Inc. trademarks are the property of Pantone, Inc. © Pantone, Inc., 2006. All rights reserved.
GretagMacbeth is a registered trademark of Amazys Holding AG. Colour Confidence is a division of TypeMaker Ltd.

LEARN TO FRAME LIKE A PRO IN TWO DAYS AT OUR FRAMING PHOTOGRAPHY WORKSHOPS (£198 + vat) DATES + VENUES THROUGHOUT UK.CALL 0800 801061

www.diyframing.com

make the paper work better
on-linepaper.co.uk ltd

Hahnemühle FineArt

20 SHEET TEST PACK
16 Types
140-375g
£23.50

Museum quality High Res dye & pigment ink, FineArt papers and cards stockist

Award-winning Somerset Enhanced & Crane Museo papers
20 sheet test pack £17.65

NEXT DAY DELIVERY SEE WEBSITE

from www.online-paper.co.uk Email: sales@online-paper.co.uk

NEW DIGITAL FINE ART CARDS

SEE WEB SITE FOR PRICES

CARD STARTER PACK SCORES MAX 5+ RATING DCS/03/04

FROM THE LEADING DPA MANUFACTURERS
• HAHNEMUHLE • SCHOELLESHAMMER
• ST CUTHBERTS (SOMERSET) • CRANE
• IMAJET

✔ PRE-CREASED
✔ AVAILABLE IN:
A4 25 SHEETS
A5 50 SHEETS
✔ PRICES START AROUND £10
✔ ENVELOPES & CLEAR CELLOPHANE PRESENTATION POCKETS AVAILABLE

MAKE & SELL PERSONALISED OCCASION CARDS!

order from: www.on-linepaper.co.uk email: on-linep@per.co.uk

Tel: 01892 771245 Fax: 01892 771241

New 24 card A5 size Starter Pack (5 different manufacturers and 5 weights) c/w envelopes. Only £23.50

A unique training resource in Photography and Digital Imaging - Especially for Canon EOS users

To get the very best from your Canon EOS digital camera visit
www.experience-seminars.co.uk

- UK's number one specialist photographic training company
- Learn all the essential skills to get excellent quality results
- Courses constantly updated to include new products
- Comprehensive printed, illustrated and bound handouts supplied
- We are a specialist training company so no product sales
- The only EOS Digital training to be recommended by Canon

2006 catalogue available with 400 events presented nationwide

Phone 01487 772804 e mail info@experience-seminars.co.uk

USE YOUR CANON FD LENSES ON YOUR EOS...CALL

COPY SLIDES/NEGS ON TO DIGITAL £29.95

- Built-in diffuser uses ambient light on cameras macro setting
- Fits to front filter thread (state size) via a stepping ring (extra - call for price)
- SRB copier supplied with full hints & tips, neg strip holder & correction filter

ASK ABOUT OUR DIGITAL SLR COPIER

FOR MOST CAMCORDERS & COOLPIX
CIRCULAR POLARIZING GLASS FILTERS
27mm → 40.5mm from £18.00
UV HAZE from £6 SKY from £10

SRB, 286 Leagrave Road, Luton, Beds LU3 1RB
HOTLINE (01582) 572471 Fax. (01582) 572535
E-mail: SRBFILM@aol.com. P&P £1.95 per order. Subject to availability.

DIGISCOPING MOUNT FOR DIGITAL STILL & VIDEO CAMERAS
TRIED & TESTED BY BIRDWATCHERS

- mounts from camera tripod socket
- 3 sizes available for eye pieces up to 35mm, 45mm, 55mm dia.
- easy to fit.
- money back g'tee.

£59.95

www.srbfilm.co.uk

DIGITAL/COMPACT CAMERA MOUNT

- Allows use of 37mm filters (from £4.50) or auxiliary camcorder lenses on compact and digital cameras
- Bracket simply fits via tripod screw

£27.95

CALL OR SEND FOR 32 PAGE CATALOGUE

The award-winning visual database for all your media files.

iView® MediaPro™
Manage your creativity

Fast. Flexible. Easy to use.

iView MediaPro is the award-winning digital asset management & cataloguing solution designed specifically for pro photographers. It enables you to create a customised, centralised & searchable repository through which a wide variety and high volume of digital files can be managed, including digital camera RAW files such as DNG, Nikon, Canon and Kodak. Quickly and easily import, organise, search, annotate, repurpose and archive all of your digital files.

Photographer STAR BUY AWARD
"MediaPro constantly suprises with what it can do"
DIGITAL PHOTOGRAPHER, ISSUE 22

Winner of the "Digital Asset Managers" Group Test
COMPUTER ARTS, NOV 2005
arts WINNER

DIGITAL CAMERA SHOPPER GOLD AWARD
"Bends over backwards to adapt to your requirements"
DIGITAL CAMERA SHOPPER, ISSUE 16

"The new version [MediaPro 3] makes iView even more useful than before"
WHAT DIGITAL CAMERA, JAN 2006
DIGITAL CAMERA choice

15% off

Experience the power of iView MediaPro: Download a 21-day FREE trial from **www.iview-multimedia.com/wd2** and receive a 15% discount off our RRP.

Windows® | Macintosh®

YYePG Proudly Presents, Thx for Support

- Find any photo in seconds even if you shoot 1000's
- Manage your entire workflow with MediaPro
- Protect your photographs by embedding your copyright automatically on import

# UK DIGITAL
www.ukdigital.co.uk

0870 8001212 — Lines open 9AM - 5PM Monday - Saturday

30 CASTLE ST, CLITHEROE, LANCS. BB7 2BX

## DIGITAL CAMERAS

### Canon

| | |
|---|---|
| Powershot A530 | £139 |
| Powershot A540 | £179 |
| Powershot A610 | £180 |
| Powershot A620 | £209 |
| Ixus 60 | £215 |
| Ixus 65 | £239 |
| Powershot S80 | £299 |
| Ixus 750 | £249 |
| Ixus 800is | £299 |
| Powershot S2 IS | £269 |
| EOS 350D + Lens | £519 |
| EOS 30D Body | £849 |

### Fujifilm

| | |
|---|---|
| Finepix F460 | £169 |
| Finepix F470 | £179 |
| Finepix S5600 | £189 |
| Finepix F11 | £209 |
| Finepix F30 | £TBA |
| Finepix V10 | £219 |
| Finepix S9500 | £349 |

### Panasonic

| | |
|---|---|
| DMC FX01 | £249 |
| DMC LZ5 | £199 |
| DMC LX1 + Reader | £349 |
| DMC TZ1 | £249 |
| DMC TZ1 Black | £249 |
| DMC FZ7 | £289 |
| DMC FZ30 | £379 |

### Pentax

| | |
|---|---|
| Optio S6 | £159 |
| Optio A10 | £219 |
| Optio T10 | £249 |
| Optio W10 | £179 |

### Nikon

| | |
|---|---|
| Coolpix L3 | £145 |
| Coolpix L2 | £169 |
| Coolpix P1 | £209 |
| Coolpix P2 + Case | £199 |
| Coolpix P3 | £289 |
| Coolpix P4 | £259 |

### Nikon

| | |
|---|---|
| Coolpix S5 | £239 |
| Coolpix S6 | £289 |
| D50 + 18-55dx | £429 |
| D70s + 18-70dx | £719 |
| D200 Body | £1149 |

### Olympus

| | |
|---|---|
| FE-115 | £89 |
| FE-140 | £129 |
| FE-150 | £125 |
| MJU-700 Silver | £189 |
| MJU-700 Black | £189 |
| MJU-720SW | £239 |
| MJU 800 Silver | £199 |
| MJU-810 | £249 |
| SP-320 | £169 |
| SP-350 | £199 |
| SP-500 | £209 |
| E-500 + 14-45mm | £469 |
| E-500 Twin Lens Kit | £575 |
| E-330 + 14-45mm | £719 |

### Samsung

| | |
|---|---|
| Digimax S500 | £99 |
| Digimax S800 | £169 |
| Digimax i6 | £199 |

### Sony

| | |
|---|---|
| DSC-S600 | £129 |
| DSC-W50 | £169 |
| DSC-W70 | £209 |
| DSC-W100 | £249 |
| DSC-T7 + Free Batt | £249 |
| DSC-T9 black / silver | £269 |
| DSC-M2 | £319 |
| DSC-N1 | £299 |
| DSC-H2 | £269 |
| DSC-H5 | £339 |
| DSC-R1 | £549 |

JOBO GIGA ONE
40gb Storage
10 in 1 Reader
Alumininium Casing
ONLY £99.00

### This Months Specials

Olympus MJU 700 Black
ONLY £189.00

Canon Ixus 750
ONLY £249.00

Next Day Delivery*
Free 2Yr Warranty
Free Expert Advice

## MEMORY CARDS

Look At These Great Memory Deals!

### Compact Flash

| | |
|---|---|
| 256MB | £12.90 |
| 256MB TWIN PACK | £19.90 |
| 512MB | £19.90 |
| 512MB TWIN PACK | £34.90 |
| 1GB | £34.90 |
| 1GB Pro | £39.90 |
| 2GB Pro | £69.90 |

### Secure Digital

| | |
|---|---|
| 256MB | £12.90 |
| 256MB TWIN PACK | £19.90 |
| 512MB | £19.90 |
| 512MB TWIN PACK | £34.90 |
| 512MB Elite Pro | £26.90 |
| 1GB | £31.90 |
| 1GB Elite Pro | £36.90 |
| 2GB Elite Pro | £64.90 |

### Memory Stick

| | |
|---|---|
| 256MB Sony | £26.90 |
| 512MB Sony | £37.90 |
| 1GB Sony | £49.90 |
| 256MB Sony Duo | £26.90 |
| 512MB Sony Duo | £37.90 |
| 1GB Sony Duo | £49.90 |
| 256MB Sandisk | £21.90 |
| 512MB Sandisk | £31.90 |
| 1GB Sandisk | £39.90 |

### xD Card

| | |
|---|---|
| 256MB | £21.90 |
| 256MB TWIN PACK | £39.90 |
| 512MB High Speed | £34.90 |
| 1GB High Speed | £59.90 |

## BATTERIES / CHARGERS

### Lithium Ion

**Canon**

| | |
|---|---|
| Canon NB-1LH | £26.90 |
| MPower NB-1LH | £9.90 |
| Canon NB-2LH | £39.90 |
| MPower NB-2LH | £14.90 |
| Powerstorm NB-3L | £14.90 |
| Canon NB-4L | £26.90 |
| Powerstorm NB-4L | £14.90 |
| Canon BP-511 | £49.90 |
| MPower BP-511 | £17.90 |

**Fuji**

| | |
|---|---|
| MPower NP40 | £14.90 |
| MPower NP60 | £14.90 |
| MPower NP120 | £17.90 |

**Konica Minolta**

| | |
|---|---|
| Hahnel NP500/600 | £17.90 |
| Minolta NP400 | £49.90 |
| MPower NP400 | £19.90 |
| MPower NP800 | £14.90 |

**Nikon**

| | |
|---|---|
| MPower EN-EL1 | £14.90 |
| Nikon EN-EL3 | £39.90 |
| MPower EN-EL3 | £19.90 |
| Nikon EN-EL5 | £26.90 |
| Powerstorm EN-EL5 | £14.90 |
| Nikon EN-EL7 | £36.90 |
| Hahnel EN-EL7 | £19.90 |
| Nikon EN-EL8 | £27.90 |
| Powerstorm EL8 | £14.90 |

**Olympus**

| | |
|---|---|
| Olympus Li12B | £24.90 |
| Hahnel Li12B | £14.90 |
| MPower Li10B | £9.90 |
| Olympus Li30B | £19.90 |
| Olympus BLM-1 | £49.90 |
| Hahnel BLM-1 | £19.90 |

**Panasonic**

| | |
|---|---|
| CGA-S002E | £44.90 |
| MPower S002E | £19.90 |

### Lithium Ion

**Panasonic**

| | |
|---|---|
| CGA-S005E | £34.90 |
| MPowers S005E | £14.90 |
| CGA-S006E | £39.90 |
| MPower S006E | £19.90 |

**Sony**

| | |
|---|---|
| Sony NP-FR1 | £39.90 |
| Hahnel NP-FR1 | £24.90 |
| Sony NP-FT1 | £39.90 |
| Unomat NP-FT1 | £24.90 |

**Sony**

| | |
|---|---|
| Sony NP-FE1 | £39.90 |
| Powerstorm FE1 | £24.90 |

### Nimh

Hahnel Ultra Fast Charger with 4 x 2350mah Batts £27.90

| | |
|---|---|
| 4 x AA 2300mah | £7.90 |
| 8 x AA 2300mah | £9.90 |
| 4 x AA 2500mah | £9.90 |

## 3 WAYS TO BUY

CLICK www.ukdigital.co.uk

0870 8001212

Collect from our store

All Prices Include Vat @ 17.5% E & OE Prices subject to change without notice. *Delivery Charges; £8 for cameras, From £1.99 for small items

# picstop.co.uk

"The Digital Accessory Specialist"

ORDER LINES MON - FRI 9-5 / SAT 9-12 TEL: 0870 055 5552

- All prices INCLUDE VAT @ 17.5% E&OE - P&P from £1.90 - Next Day £5.90 - www.PicStop.co.uk for Latest Prices - 100% Secure Ordering -

### SanDisk

**Secure Digital**

| | |
|---|---|
| 256MB | 13.10 |
| 512MB | 21.90 |
| 1GB | 34.90 |
| 2GB | 54.90 |
| 1GB EXTREME III 120x | 47.90 |

**Ultra II Secure Digital**

| | |
|---|---|
| 512 MB | 25.50 |
| 1GB | 41.90 |
| 2GB | 64.90 |

**Memory Stick**

| | |
|---|---|
| 256MB PRO | 17.90 |
| 512MB PRO | 24.90 |
| 1GB PRO | 39.70 |
| 2GB PRO | 77.90 |
| 512MB PRO DUO | 24.90 |
| 1GB PRO DUO | 37.90 |
| 2GB PRO DUO | 75.90 |

**USB Drives**

| | |
|---|---|
| Cruzer Micro 256MB | 13.90 |
| Cruzer Micro 512MB | 19.90 |
| Cruzer Micro 1GB | 34.90 |
| Cruzer Micro 2GB | 51.90 |
| Cruzer Titanium 512MB | 24.90 |
| Cruzer Titanium 1GB | 39.50 |

**Card Readers**

| | |
|---|---|
| SanDisk 12in1 ImageMate Reader/Writer | 19.90 |
| SanDisk 5in1 ImageMate Reader/Writer | 11.90 |
| SanDisk CF USB 2.0 Reader (Transfer Button) | 11.90 |
| SanDisk Photo Album Viewer | 29.90 |

### SanDisk

**Compact Flash**

| | |
|---|---|
| 128MB | 10.90 |
| 256MB | 14.00 |
| 512MB | 21.90 |
| 1GB | 34.90 |
| 2GB | 54.90 |
| 4GB | 106.90 |

**Ultra II Compact Flash**

| | |
|---|---|
| 512MB 60x | 25.40 |
| 1GB 60x | 41.90 |
| 2GB 60x | 66.90 |
| 4GB 60x | 129.90 |

**Extreme III CF**

| | |
|---|---|
| 1GB 120x | 47.90 |
| 2GB 120x | 74.90 |
| 4GB 120x | 149.90 |

**Transflash/MicroSD**

| | |
|---|---|
| 128MB | 12.90 |
| 256MB | 14.50 |
| 512MB | 21.90 |

**Mini SD**

| | |
|---|---|
| 256MB | 14.50 |
| 512MB | 21.90 |
| 1GB | 34.90 |
| 2GB | 54.20 |

### LEXAR

**Compactflash**

| | |
|---|---|
| 1GB 133x | 46.90 |
| 2GB 133x | 76.90 |
| 4GB 133x | 148.90 |

**Memory Stick**

| | |
|---|---|
| 512MB PRO DUO | 24.90 |
| 1GB PRO DUO | 34.90 |

**Secure Digital Card**

| | |
|---|---|
| 128MB | 9.90 |
| 256MB | 13.60 |
| 512MB | 18.90 |
| 1GB | 31.90 |
| 1GB 133x | 46.90 |
| 2GB 133x | 79.90 |

**Card Readers**

| | |
|---|---|
| Compactflash USB 2.0 | 10.90 |
| 12in1 USB 2.0 | 17.90 |
| Single Slot Reader | 14.70 |

### SONY

**Sony Memory Stick**

| | |
|---|---|
| 256 MB PRO | 22.30 |
| 512 MB PRO | 32.90 |
| 1GB PRO | 46.90 |
| 512 MB PRO DUO | 32.90 |
| 1GB PRO DUO | 46.90 |
| 2GB PRO DUO | 93.90 |

### Kingston

**Compact Flash**

| | |
|---|---|
| 256MB | 9.90 |
| 512MB | 12.99 |
| 1GB | 22.90 |
| 512MB Elite 50x | 17.90 |
| 1GB Elite 50x | 26.90 |
| 2GB Elite 50x | 45.90 |
| 4GB Elite 50x | 92.90 |
| Ultimate 1GB 100x | 34.90 |
| Ultimate 2GB 100x | 61.90 |
| Ultimate 4GB 100x | 147.90 |

**Secure Digital**

| | |
|---|---|
| 256MB | 8.90 |
| 512MB | 12.99 |
| 1GB | 22.90 |
| 256MB Elite 50x | 9.90 |
| 512MB Elite 50x | 15.60 |
| 1GB Elite 50x | 26.90 |
| Ultimate 512MB 133x | 25.50 |
| Ultimate 1GB 133x | 35.90 |
| Ultimate 2GB 120x | 79.50 |

**Multimedia**

| | |
|---|---|
| 256MB MMCMobile | 10.90 |
| 512MB MMCMobile | 16.90 |
| 1GB MMCMobile | 28.90 |
| 1GB MMC+ | 23.50 |
| 2GB MMC+ | 61.90 |

**USB Pen Drive**

| | |
|---|---|
| 256MB | 10.90 |
| 512MB | 16.40 |
| 1GB | 26.90 |

### FUJIFILM

**Fuji Compact Flash**

| | |
|---|---|
| 256MB 40x | 14.90 |
| 512MB 40x | 23.50 |
| 1GB 40x | 35.90 |

**Fuji xD**

| | |
|---|---|
| 128MB | 9.90 |
| 256MB | 13.25 |
| 512MB | 24.90 |
| 1GB | 46.20 |

### OLYMPUS

**Olympus xD**

| | |
|---|---|
| 256MB | 16.90 |
| 512MB | 28.50 |
| 1GB | 48.90 |
| 256MB Type H (Hi-Speed) | 20.90 |
| 512MB Type H (Hi-Speed) | 34.90 |
| 1GB Type H (Hi-Speed) | 56.90 |

**Generic Card Readers**

| | |
|---|---|
| Compactflash | 4.90 |
| Compactflash USB 2.0 | 6.90 |
| Memory Stick | 4.90 |
| Secure Digital | 4.90 |
| Secure Digital USB 2.0 | 6.90 |
| xD Pen Reader | 5.90 |
| SmartMedia | 4.90 |
| 23in1 USB 2.0 | 6.90 |

**Battery Chargers**

| | |
|---|---|
| Uniross Express Mini | 9.90 |
| Uniross Globetrotter | 17.90 |
| Uniross Sprint 1HR Charger | 21.90 |
| Uniross Sprint 90MIN Charger | 18.90 |
| Uniross Express 700 | 19.90 |
| Encore Fast Charger + 4x 2500mah | 17.99 |
| Encore Classic + 4x 2300mah | 9.99 |
| Uniross CRV3 | 19.90 |
| Uniross CR123A | 14.90 |
| Ansmann Digispeed 4 | 34.90 |
| Ansmann Energy 4 (Worldwide) | 29.90 |

**Rechargeable Batteries**

| | |
|---|---|
| Ansmann AA 2600 mAh 4-Pack | 11.90 |
| Encore AA 2300 mAh 4-Pack | 4.90 |
| Uniross AA 2300 mAh 4-Pack | 6.90 |
| Uniross AA 2500 mAh 4-Pack | 7.90 |
| Uniross AAA 900 mAh 4-Pack | 7.90 |
| Uniross CRV3 | 8.90 |
| Uniross CR123A | 9.90 |

**DVDR**

| | |
|---|---|
| RiVision Blue 8x DVD-R Spindle | 7.40 |
| Datawrite 4x DVD-R Yellow x50 | 7.75 |
| Datawrite 8x DVD-R Yellow x50 | 8.74 |
| Datawrite Titanium 8x DVD-R Spindle | 9.25 |
| Datawrite Classic 8x DVD+R Spindle | 9.49 |
| Imation CDR 52x 700MB/80min Spindle | 4.90 |

**Equivalent - Camera Batteries**

| | |
|---|---|
| Nikon EN EL1 | 9.90 |
| Nikon EN EL2 | 9.90 |
| Nikon EN EL3 | 9.90 |
| Nikon EN EL4 | 19.90 |
| Nikon EN EL5 | 9.90 |
| Minolta NP200 | 9.90 |
| Minolta NP400 | 9.90 |
| Minolta NP500 | 9.90 |
| Minolta NP700 | 9.90 |
| Minolta NP800 | 9.90 |
| Olympus LI-10B | 9.90 |
| Olympus LI-12B | 9.90 |
| Olympus LI-30B | 9.90 |
| Olympus BLM1 | 9.90 |
| Fuji NP 30 LB | 9.90 |
| Fuji NP 40 LB | 9.90 |
| Fuji NP 60 LB | 9.90 |
| Fuji NP 80 LB | 9.90 |
| Fuji NP 120 LB | 9.90 |
| Canon BP 511 | 9.90 |
| Canon NB 1LH | 9.90 |
| Canon NB 2L | 9.90 |
| Canon NB 3L | 9.00 |
| Canon NB 4L | 9.90 |
| Canon NB 5H | 9.90 |
| Kyocera BP1000S | 9.90 |
| Sony NP-FC10/11 | 10.90 |
| Sony FM-50 | 14.90 |
| Sony FF-50 | 16.90 |

ALL MAJOR CREDIT CARDS ACCEPTED

www.saycheese4me.co.uk

trust UK

T: 0870 055 5552 F: 0870 055 5553 W: www.picstop.co.uk E: sales@picstop.co.uk Prices Subject To Change - Trademarks Acknowledged -


YYePG Proudly Presents, Thx for Support

# bestcameras.co.uk

For our latest, lowest prices call 01744 453111 or check out our website at www.bestcameras.co.uk

FREE 2 YEAR GUARANTEE  ALL UK ITEMS

FROM Kamera Direct

## digital cameras

### CANON

| | |
|---|---|
| DIGITAL IXUS I ZOOM | £182.99 |
| DIGITAL IXUS 60 SILVER | £229.99 |
| IXUS 60 + SELPHY 510 + 128MB + CASE | £299.99 |
| DIGITAL IXUS 65 SILVER | £259.99 |
| DIGITAL IXUS 55 | £189.99 |
| DIGITAL IXUS WIRELESS SILVER | £292.99 |
| DIGITAL IXUS 750 | £272.99 |
| DIGITAL IXUS 800IS SILVER | £299.99 |
| POWERSHOT A430 | £114.99 |
| POWERSHOT A530 | £149.99 |
| POWERSHOT A540 | £189.99 |
| POWERSHOT A610 | £182.99 |
| POWERSHOT A620 | £204.99 |
| POWERSHOT S2 IS | £292.99 |
| POWERSHOT S3 IS BLACK | £339.99 |
| POWERSHOT S80 | £329.99 |
| EOS 350 D SLR | £462.99 |
| EOS 350 D+18-55 LENS | £492.99 |
| EOS 350 D+18-55+55-200 LENS | £699.99 |
| EOS 350 D+17-85 LENS | £869.99 |
| 350D + 18-125 SGMA | £669.99 |
| 350D + 18-200 SGMA | £739.99 |
| EOS 30D BODY BLACK | £999.99 |
| EOS 30D + 18-55 LENS | £1049.99 |
| EOS 30D + 17-85IS USM LENS | £1349.99 |
| EOS 5D BODY | £1799.99 |
| EOS 5D +24-105 USM IS LENS | £2299.99 |

### CASIO

| | |
|---|---|
| CASIO EXILIM Z750 | £214.99 |
| CASIO EXILIM S600 | £214.99 |

### FUJI

| | |
|---|---|
| FUJI FINEPIX A400 | £92.99 |
| FUJI FINEPIX A500 | £122.99 |
| FUJI FINEPIX V10 | £259.99 |
| Z1 | £184.99 |
| S5600 | £199.99 |
| S9500 | £369.99 |

### NIKON

| | |
|---|---|
| NIKON COOLPIX L4 | £112.99 |
| NIKON COOLPIX L3 | £149.99 |
| NIKON COOLPIX L2 | £174.99 |
| NIKON COOLPIX S5 | £259.99 |
| NIKON COOLPIX S6 WI FI | £299.99 |
| NIKON COOLPIX P4 | £284.99 |
| COOLPIX S1 | £169.99 |
| COOLPIX S2 | £169.99 |
| COOLPIX P2 | £169.99 |
| D50 BODY | £339.99 |
| D50+18-55 | £422.99 |
| D50+18-125 SIGMA | £539.99 |
| D50+18-200 SIGMA | £609.99 |

### OLYMPUS

| | |
|---|---|
| D70S BODY | £579.99 |
| D70S+18-70 | £739.99 |
| D70S+18-125 SIGMA | £789.99 |
| D70S+18-200 SIGMA | £859.99 |
| D200+18-70 | £1389.99 |
| SP320 | £174.99 |
| SP350 | £209.99 |
| SP350 | £214.99 |
| MJU MINI S | £139.99 |
| MJU 600 | £164.99 |
| OLYMPUS FE115 | £89.99 |
| OLYMPUS FE130 | £109.99 |
| OLYMPUS FE140 | £129.99 |
| OLYMPUS FE150 | £129.99 |
| OLYMPUS MJU 700 | £179.99 |
| OLYMPUS MJU 720 SW | £229.99 |
| MJU 810 SILVER | £249.99 |
| E500+14-45 | £574.99 |
| E500+14-45+40-150 | £609.99 |
| E330+14-45 | £849.99 |

### PANASONIC

| | |
|---|---|
| DMC-LS2 SILVER | £139.99 |
| DMC-LZ3 SILVER | £189.99 |
| DMC-LZ5 SILVER | £219.99 |
| DMC-FX01 | £269.99 |
| DMC-TZ1 | £269.99 |
| DMC FX8B | £189.99 |
| DMC FX9B | £229.99 |
| DMC LX1B | £329.99 |
| DMC FZ7 | £299.99 |
| DMC FZ30 | £367.99 |

### PENTAX

| | |
|---|---|
| OPTIO S6 | £227.99 |
| OPTIO WPI | £217.99 |

### RICOH

| | |
|---|---|
| RICOH CAPLIO R3 | £229.99 |
| RICOH CAPLIO GR | £392.99 |

### SAMSUNG

| | |
|---|---|
| SAMSUNG I5 | £159.99 |
| SAMSUNG DIGIMAX I6 | £199.99 |
| SAMSUNG DIGIMAX S500 | £109.99 |
| SAMSUNG DIGIMAX A503 | £79.99 |
| SAMSUNG L50 | £139.99 |
| SAMSUNG L55W | £199.99 |
| SAMSUNG PRO815 | £389.99 |

### SONY

| | |
|---|---|
| DSC S600 | £132.99 |
| SONY DSC W30 | £154.99 |
| SONY DSC W50 | £169.99 |
| DSC T9 | £269.99 |
| DSC M2 | £312.99 |
| DSC N1 | £299.99 |
| DSC R1 | £549.99 |

## printers

### CANON

| | |
|---|---|
| SELPHY CP510 PRINTER | £79.99 |
| SELPHY CP710 PRINTER | £99.99 |
| SELPHY DS810 PRINTER | £99.99 |
| PIXMA IP 1600 PRINTER | £42.99 |
| PIXMA IP 4200 PRINTER | £74.99 |
| PIXMA IP 5200 PRINTER | £99.99 |
| PIXMA IP 5200R PRINTER | £149.99 |
| PIXMA MP170 PRINTER | £69.99 |
| PIXMA MP450 PRINTER | £99.99 |
| PIXMA MP500 PRINTER | £139.99 |
| PIXMA MP800 PRINTER | £219.99 |
| PIXMA IP 8500 PRINTER | £239.99 |
| PIXMA IP90 | £169.99 |

### SONY

| | |
|---|---|
| SONY PRINTER DPP FP30 | £89.99 |
| SONY PRINTER DPP FP50 | £129.99 |

### OLYMPUS

| | |
|---|---|
| OLYMPUS P11 PRINTER | £89.99 |

## digital video

### CANON

| | |
|---|---|
| CANON DC10 DVD | £374.99 |
| CANON DC20 DVD | £454.99 |
| CANON DC40 DVD | £569.99 |
| CANON MV 890 | £194.99 |
| CANON MV 930 | £234.99 |
| CANON MV 960 | £269.99 |
| CANON MVX460 | £334.99 |
| CANON MVX4I MINI DV | £534.99 |

### JVC

| | |
|---|---|
| JVC EVERIO GZ-MG21EK | £479.99 |
| JVC EVERIO GZ-MG36EK | £569.99 |
| JVC EVERIO GZ-MG77EK | £659.99 |

### PANASONIC

| | |
|---|---|
| PANASONIC NV-GS27B | £229.99 |
| PANASONIC NV-GS37B | £277.99 |
| PANASONIC NV-GS180B | £374.99 |
| PANASONIC NV-GS280B | £497.99 |
| PANASONIC NV-GS300B | £545.99 |
| PANASONIC NV-GS500B | £849.99 |
| PANASONIC VDR-D100B | £329.99 |
| PANASONIC VDR-D150B | £377.99 |

### SONY

| | |
|---|---|
| SONY DCR HC39 MINI DV | £319.99 |
| SONY DCR HC42 MINI DV | £359.99 |
| SONY DCR PC53 MINI DV | £319.99 |
| SONY DCR PC55 MINI DV | £349.99 |
| SONY HDR HC1 | £1119.99 |
| SONY DRC HC24 | £264.99 |
| SONY DRC HC35 | £279.99 |
| SONY DRC HC44 | £359.99 |
| SONY DRC HC46 | £399.99 |
| SONY DRC HC94 | £479.99 |
| SONY DRC HC96 | £519.99 |
| SONY DCR DVD 202 | £429.99 |
| SONY DCR DVD 403 | £659.99 |
| SONY DCR DVD 105 | £359.99 |
| SONY DCR DVD 205 | £399.99 |
| SONY DCR DVD 404 | £519.99 |
| SONY DCR DVD 405 | £559.99 |

## dvd recorders

### PANASONIC

| | |
|---|---|
| PANASONIC DMR-ES20D | £164.99 |
| PANASONIC DMR-EH50 | £259.99 |
| PANASONIC DMR-ES30V | £229.99 |

### JVC

| | |
|---|---|
| JVC DR-M100SEK | £149.99 |

### SONY

| | |
|---|---|
| SONY RDR-G210 | £144.99 |
| SONY RDR-HXD710 | £469.99 |
| SONY RDR-HXD910 | £599.99 |

INVESTOR IN PEOPLE

For latest prices and to see all products, please check our website or

PHONE 01744 453111

www.bestcameras.co.uk

**KAMERA DIRECT**

6/8 Cotham St. St Helens, Merseyside WA10 1SA

Tel: 01744 453111 • Fax 01744 453441

Website: www.bestcameras.co.uk • Email:sales@bestcameras.co.uk

# Equipment Express .co.uk

THE BEST IN PHOTO + DIGITAL IMAGING DELIVERED TO YOUR DOOR

**FREE DELIVERY** ON ALL CAMERAS & CAMERA KITS

**FREE EXTRA 12 MONTH WARRANTY**

**FREE TABLE-TOP TRIPOD WITH EVERY CAMERA KIT SALE**

## GOOD NEWS FOR YOU...

THESE PRICES WERE CORRECT 4 WEEKS AGO. THEY'RE PROBABLY EVEN LOWER NOW. CHECK OUT OUR WEBSITE FOR CURRENT LOWEST PRICES

www.equipmentexpress.co.uk

MORE KITS + ACCESSORIES AVAILABLE
CHECK OUT OUR WEBSITE OR CALL FOR DETAILS

## CHECK SITE FOR SPECIAL OFFERS

### CANON

| | |
|---|---|
| NEW CANON A430 | £124.99 |
| +extra 128MB card, case, charger & batts | £154.99 |
| NEW CANON A530 | £159.99 |
| +extra 128MB card, case, charger & batts | £189.99 |
| NEW CANON A540 | £194.99 |
| +extra 128MB card, case, charger & batts | £224.99 |
| CANON Powershot A610 inc case | £184.99 |
| +extra 128MB card & case | £199.99 |
| CANON Powershot A620 in case | £219.99 |
| +extra 256MB card and case | £254.99 |
| CANON Digital Ixus i Zoom inc Canon case | £169.99 |
| Ixus i Zoom +extra 256MB card & case | £194.99 |
| CANON Digital Ixus 55 | £194.99 |
| Ixus i Zoom +extra 256MB card & case | £219.99 |
| CANON Digital Ixus Wireless | £299.99 |
| Ixus Wireless +extra 256MB card & case | £324.99 |
| CANON Digital Ixus 60 | £234.99 |
| Digital Ixus 60 +extra 256MB card & case | £259.99 |
| CANON Digital Ixus 65 | £279.99 |
| Digital Ixus 65 +extra 256MB card & case | £304.99 |
| CANON Digital Ixus 750 | £279.99 |
| Digital Ixus 750 +extra 256MB card & case | £304.99 |
| CANON Digital Ixus 800IS | £319.99 |
| Digital Ixus 800IS +extra 256MB card & case | £344.99 |
| CANON Powershot S80 | £339.99 |
| Powershot S80+extra 256MB card & case | £364.99 |
| CANON Powershot S2 IS inc Canon case | £319.99 |
| +extra 256MB card, case, charger, 4x NMH batts | £349.99 |
| CANON Powershot S3 IS inc Canon case | £359.99 |
| +extra 256MB card, case, charger, 4x NMH batts | £384.99 |
| EOS 350D BODY + FREE CASE | £469.99 |
| EOS 350D + 18-55D + FREE CASE | £519.99 |
| EOS 350D + 18-50 SIGMA | £519.99 |
| EOS 350D + 18-200 SIGMA | £689.99 |
| CANON EOS 5D BODY SPECIAL PRICE | £1599.99* |
| CANON EOS 5D + CANON 24-105 SPECIAL PRICE | £2299.99* |
| *Price includes £200 cashback from Canon | |
| CANON EOS 30D BODY | PHONE |
| CANON EOS 30D BODY + 17-85 IS USM | PHONE |

### FUJI

| | |
|---|---|
| NEW FUJI Z1 | £189.99 |
| Z1+extra 512MB card & case | £239.99 |
| Z11+extra 512MB card & case | £279.99 |
| FUJI S 5600 | £219.99 |
| S5600+extra 256MB card & case | £259.99 |
| FUJI S9500 | £399.99 |
| S9500+1GB card & case | £459.99 |

### KONICA MINOLTA

| | |
|---|---|
| MINOLTA Z3 inc charger and batts | £189.99 |
| MINOLTA Z5 inc charger and batts | £209.99 |
| Z5 inc. extra 256MB card, case, charger & batts | £269.99 |
| MINOLTA Z6 inc Minolta case | £229.99 |
| Z6 inc. extra 256MB card, case, charger & batts | £269.99 |
| MINOLTA DYNAX 5D Body | £419.99 |
| DYNAX 7D and Minolta 17-35 + FREE GRIP | £699.99 |

### NIKON

| | |
|---|---|
| NIKON L3 | £159.99 |
| L3 inc. extra 128MB card, case & charger kit | £184.99 |
| NIKON L2 | £179.99 |
| L2 inc. extra 256MB card, case & charger kit | £219.99 |
| NIKON S4 | £284.99 |
| S4 inc. extra 128MB card and case | £299.99 |
| NIKON S5 | £264.99 |
| S5 inc. extra 256MB card and case | £289.99 |
| NIKON S6 WI FI | £299.99 |
| NIKON S6 WI FI inc. extra 256MB card and case | £324.99 |
| NIKON P3 | £299.99 |
| NIKON P3 inc. extra 256MB card and case | £324.99 |
| NIKON P4 | £294.99 |
| NIKON P4 inc. extra 256MB card and case | £319.99 |
| NIKON Coolpix 7900 | £254.99 |
| 7900 inc. extra 128MB card and case | £269.99 |
| NIKON Coolpix 8800 | £516.99 |
| 8800 inc. extra 1GB card and case | £569.99 |
| D50 Body | £344.99 |
| D50 Body+18-55 | £409.99 |
| SEE MORE D50 SIGMA OPTIONS ON WEBSITE | |
| D70S Body | £619.99 |
| D70S Body + Nikon 18-70 lens | £779.99 |
| D200 Body | PHONE |
| D200 Body + Nikon 18-70 lens | PHONE |

### OLYMPUS - INC. 3 YEAR WARRANTY

| | |
|---|---|
| OLYMPUS FE115 | £99.99 |
| FE115 inc case extra 128MB card, charger kit | £129.99 |
| OLYMPUS FE140 | £129.99 |
| FE140 inc case extra 128MB card, charger kit | £159.99 |
| OLYMPUS FE150 | £129.99 |
| FE150 inc case extra 256MB card, charger kit | £169.99 |
| OLYMPUS SP320 | £179.99 |
| SP320 inc case extra 256MB card, charger kit | £219.99 |
| OLYMPUS SP350 inc case | £219.99 |
| SP350 inc case extra 256MB card, charger kit | £259.99 |
| OLYMPUS SP500 Ultra Zoom inc case | PHONE |
| SP500 inc case. extra 256MB card, charger kit | PHONE |
| OLYMPUS MJU Mini S + Free Olympus Kit | £179.99 |
| Mini S inc case and extra 256MB | £209.99 |
| OLYMPUS MJU 700 | £199.99 |
| MJU 700 inc case+extra 256MB card | £229.99 |
| OLYMPUS MJU 720SW | £229.99 |
| MJU 720SW inc case+extra 256MB card | £259.99 |
| OLYMPUS MJU 810 | £249.99 |
| MJU 810 inc case+extra 256MB card | £279.99 |
| OLYMPUS E500 SLR + 14-55 lens | £579.99 |
| OLYMPUS E500 SLR + 14-55 lens + 40-150 lens | £629.99 |
| OLYMPUS E300 SLR + 14-55 lens | PHONE |
| OLYMPUS E500 SLR + 14-55 lens + 40-150 lens | PHONE |

### PANASONIC

| | |
|---|---|
| LZ5B | £239.99 |
| LZ5B+extra 128MB card and case | £254.99 |
| LX1B | £336.99 |
| LX1B+extra 256MB card and case | £364.99 |
| FX01B | £279.99 |
| FX01B+extra 256MB card and case | £204.99 |
| TZ1B | £279.99 |
| TZ1B+extra 256MB card and case | £304.99 |
| FZ7b | £306.99 |
| FZ7b+extra 256MB card and case | £334.99 |
| FZ30B | £379.99 |
| FZ30B+ 1GB card and case | £434.99 |
| SEE WEBSITE FOR MORE NEW PANASONIC CAMERAS | |

### PENTAX

| | |
|---|---|
| ist DL body + Pentax 18-55mm SMC DA AL Lens | £499.99 |
| ist DL+18-55 SMC DA AL+ Pen 50-200 SMC ED | £689.99 |

### RICOH - INC. 3 YEAR WARRANTY

| | |
|---|---|
| RICOH R3 | £234.99 |
| R3+extra 512MB card and case | £259.99 |
| RICOH GX8 | £249.99 |
| GX8+extra 128MB card, case, charger & batts | £279.99 |
| RICOH GR | £399.99 |
| RGR+extra 512MB card and case | £439.99 |

### SAMSUNG - INC. 3 YEAR WARRANTY

| | |
|---|---|
| SAMSUNG A402 | £89.99 |
| 402+extra 128MB SD card, charger,4x NIMH batts | £119.99 |
| SAMSUNG A50 | £119.99 |
| A50+extra 128MB SD card, charger,4x NIMH batts | £149.99 |
| SAMSUNG L50 | £149.99 |
| L50+extra 128MB SD card and case | £164.99 |
| SAMSUNG I5 | £169.99 |
| I5+extra 256MB SD card and case | £194.99 |
| SAMSUNG I6 | £189.99 |
| I6+extra 256MB SD card and case | £214.99 |
| SAMSUNG L55W | £209.99 |
| L55W+extra 128MB SD card | £224.99 |
| SAMSUNG PRO 815 | PHONE |
| PRO 815+extra 1GB SD card and case | PHONE |

### VIVITAR

| | |
|---|---|
| VIVITAR VC5385 | £99.99 |
| VC5385+extra 128MB card, case, charger & batts | £129.99 |

SEE WEBSITE FOR ALL DIGITAL OPTIONAL KITS AVAILABLE
SEE WEBSITE FOR GREAT DEALS ON CANON CAMCORDERS

PLEASE FEEL FREE TO VISIT OUR SHOP:

3 Stamford New Road, Altrincham, Cheshire WA14 1BE

**Tel: 0161 926 9837**

**Fax 0161 929 0768**

Email: sales@equipmentexpress.co.uk

All cameras UK guaranteed - no grey imports.
Call for carriage price outside UK mainland.
Prices correct at time of going to press. E.&O.E.
A trading division of Kamera Altrincham Ltd. Established 1989

Equipment Express

www.equipmentexpress.co.uk

YYePG Proudly Presents, Thx for Support

# The HOT 100 cameras

## The UK's best marketplace for all things digital

WHAT DIGITAL CAMERA

Over the following pages you'll find the specifications and ratings of more than 190 cameras, printers, scanners, software programs and accessories...

**Welcome to the UK's best digital photography Buying Guide. Here you'll find the specifications and our verdicts on the UK's top 100 digital cameras, plus the most popular accessories.**

If it isn't here it's either not good enough, discontinued (though it may still be available from some dealers) or too new to have been tested yet. (It can sometimes take a few weeks for a test to appear, depending on space, publishing schedules, and when we get the sample.) Products are judged by how well they serve their market. Those that score 85% or more in our tests are awarded the coveted WDC Choice rosette. With many more accessories available than we have the space for, we concentrate on the best-quality products from the most respected brands in their field. All have been chosen and tested with the enthusiast in mind. The Buyers' Guide should help you choose the right product for you. But for more information why not read the full test report first? A pdf or reprint of every camera test, including the full specs and ratings, can be emailed or faxed to you for just £3.00 by calling 01707 273 773 or visiting our website.

Alternatively, you can order a back issue from: John Denton Services, Unit One, A1 Parkway, South Gate Way, Orton Southgate, Peterborough, PE2 6YN. Telephone: 01733 370800.

Better still, why not take out a subscription to What Digital Camera and be the first to read the full tests on every new camera and accessory – and get loads of technique and inspiration into the bargain? Call 0845 676 7778 for the latest deals and to sign up. **WDC**

# Using This Guide

UP TO £200 | £200 - £300 | £300 - £400 | £400 - £600 | £600 - £7000

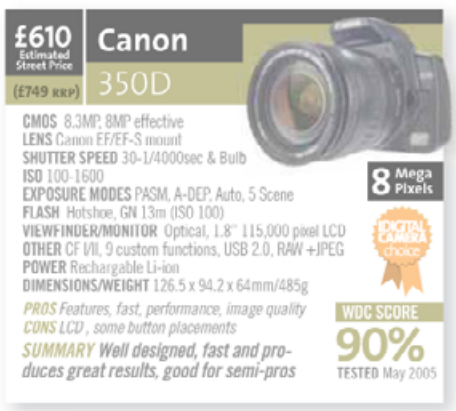
**STREET PRICE**
Estimated street price at time of press. (Prices may vary)

**RRP**
The price at launch. Test rating based on this price

**SPECIFICATION LIST**
The key features you should check when comparing models

**EXPOSURE MODES**
P= Program, A = Aperture priority, S= Shutter priority, M = Manual

**SUMMARY**
A precis of our test verdict


£610
Estimated Street Price
(£749 RRP)
Canon
350D
CMOS 8.3MP, 8MP effective
LENS Canon EF/EF-S mount
SHUTTER SPEED 30-1/4000sec & Bulb
ISO 100-1600
EXPOSURE MODES PASM, A-DEP, Auto, 5 Scene
FLASH Hotshoe, GN 13m (ISO 100)
VIEWFINDER/MONITOR Optical, 1.8" 115,000 pixel LCD
OTHER CF I/II, 9 custom functions, USB 2.0, RAW +JPEG
POWER Rechargable Li-ion
DIMENSIONS/WEIGHT 126.5 x 94.2 x 64mm/485g
8 Mega Pixels
PROS Features, fast, performance, image quality
CONS LCD , some button placements
SUMMARY Well designed, fast and produces great results, good for semi-pros
WDC SCORE
90%
TESTED May 2005

**MAKE AND MODEL**
Cameras are listed in ascending order of price

**SENSOR SIZE**
How many megapixels? A guide to image quality

**AWARDS**
A gold rosette is given for highly recommended models

**OVERALL SCORE**
Total score out of 100, plus date model was tested

## About the Ratings

**RATINGS** Products are rated out of 20 by five criteria which, when combined, provide a mark out of a hundred.

**FEATURES** How well specified is the product? Does it have all the features that you're likely to need?

**DESIGN** Is the design stylish or ugly? Comfortable or awkward? Functional or impractical? Design is about handling as well as looks.

**PERFORMANCE** How does it handle? Are the buttons well placed? Is the menu simple? Is it responsive or sluggish?

**QUALITY** How are the results? Sharp or soft? Is the colour accurate? Do the images suffer from noise, fringing, distortion?

**VALUE** Is it competitively priced? How does it compare with its nearest rivals? Our scores are based upon the retail price at launch (RRP).

In this volatile market prices change almost monthly, and as cameras become cheaper they inevitably become better value. It would be impractical and confusing to change the scores every month, so we include the RRP along with the current average street price. Where there's a big difference it can be assumed that the product is now better value than when it was tested, but also that it may be coming towards the end of its natural shelf life. Highly recommended cameras receive the WDC rosette.

TAKE THE 360° VIRTUAL TOUR

# On The Web

You'll find product photos and 360° Quicktime tours of virtually every current camera, plus sample test images taken by our reviewers for you to view or download. You can also buy tests or back issues online, or subscribe. In addition you'll find daily news on all the latest product launches, reader forums, a gallery for your own pictures, plus loads of features and techniques, useful links, competitions, events listings, bookshop and lots more, just visit www.whatdigitalcamera.com

WHAT DIGITAL CAMERA
www.whatdigitalcamera.com

YYePG Proudly Presents, Thx for Support

## £100 Estimated Street Price (£149 RRP) — Nikon 4600

**CCD** 3.9MP effective
**LENS** 34-102mm
**SHUTTER SPEED** 4-1/3000sec
**ISO** Auto
**EXPOSURE MODES** P, Sc, Mov, ±2EV
**FLASH** GN 3.3m
**VIEWFINDER/MONITOR** Yes/1.8inch
**OTHER** SD, Best Shot Selector, auto & manual focus, USB
**POWER** 2x AA
**DIMENSIONS/WEIGHT** 85 x 60 x 35mm/130g

4 Mega Pixels

*PROS* Simple to use, good price, punchy results
*CONS* Maybe too basic, difficulty resolving fine detail
***SUMMARY*** ***Very basic and easy to use, and produces punchy images***

WDC SCORE **81%** TESTED May 2005

## £120 Estimated Street Price (£179 RRP) — Kodak Z700

**CCD** 4.1MP
**LENS** 35-175 mm f/2.8-4.8
**SHUTTER SPEED** 8-1/1000sec
**ISO** Auto, 80, 100, 200, 400
**EXPOSURE MODES** P, A, S, sport, landscape, close-up, 13 Sc
**FLASH** Built in, GN 9.5m
**VIEWFINDER/MONITOR** Optical/ 1.6in
**OTHER** Storage SD cards, Pictbridge, ±2.0 EV
**POWER** 2CR-V3, 2x AA
**DIMENSIONS/WEIGHT** 94 x 72 x 54.5mm/ 219g

4 Mega Pixels

*PROS* Great specification at a great price
*CONS* A bit lethargic, slightly blocky images
***SUMMARY*** ***Great specifications, however it doesn't quite deliver***

WDC SCORE **82%** TESTED Dec 2005

## £130 Estimated Street Price (£160 RRP) — Sony S600

**CCD** 6MP
**LENS** 31-93mm f2.8-5.1
**SHUTTER SPEED** 1/8 - 1/2000sec
**ISO** 80-1000
**EXPOSURE MODES** Program, Auto ±2EV
**FLASH** 4 modes up to 7m
**VIEWFINDER/MONITOR** Optical/2in LCD
**OTHER** MS Duo Pro, MPEG VX
**POWER** 2x AA, Sony Stamina supplied
**DIMENSIONS/WEIGHT** 99 x 52 x 36.8mm/181mm

6 Mega Pixels

*PROS* High ISO 1000, wide lens, reasonable price
*CONS* Noise at ISO 1000, plastic body, chunkiness
***SUMMARY*** ***A middle-of-the-road camera, despite an impressive high ISO***

WDC SCORE **82%** TESTED Apr 2006

## £150 Estimated Street Price (£239 RRP) — Canon A520

**CCD** 4.2MP total, 4.0MP effective
**LENS** 34-140mm f2.6 – 5.5
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** 50-400
**EXPOSURE MODES** M, A, S, P, 5 pic modes, 8 scene modes
**FLASH** Built in
**VIEWFINDER/MONITOR** Optical/1.8in LCD
**OTHER** SD
**POWER** 2x AA cells
**DIMENSIONS/WEIGHT** 91 x 64 x 38.5mm/180g

4 Mega Pixels

*PROS* Accomplished performer
*CONS* Could be quicker and quieter
***SUMMARY*** ***Assured performance by a capable camera, producing fine images***

WDC SCORE **86%** TESTED July 2005

## £150 Estimated Street Price (£199 RRP) — HP R717

**CCD** 6.4MP total, 6.2MP effective
**LENS** 39-117mm f2.8-4.9
**SHUTTER SPEED** 16 - 1/2000th sec
**ISO** Auto, 50, 100, 200, 320
**EXPOSURE MODES:** Auto, AP, 10 scene modes
**FLASH** Built in 5m (W) 2.8m (T)
**VIEWFINDER/MONITOR** Optical/1.8in
**OTHER** SD/MMC, 32MB int, USB, 320x240pixel MPEG1 movies
**POWER** Li-ion battery
**DIMENSIONS/WEIGHT** 98.5 x 35.3 x60mm/180g

6 Mega Pixels

*PROS* Ease of use, Real Imaging Technology
*CONS* Limited macro mde, images lack punch
***SUMMARY*** ***Easy to operate, but speed and picture quality are not perfect***

WDC SCORE **83%** TESTED Aug 2005

## £150 Estimated Street Price (£250 RRP) — Olympus MJU Mini S

**CCD** 5.4MP (total) 5MP (Effective)
**LENS** 35-70mm (equiv) f/3.5-4.9
**SHUTTER SPEED** 1/2-1/1000sec
**ISO** 64-400 plus auto
**EXPOSURE MODES** P, Sc, Movie
**FLASH** Built-in GN 5.4
**VIEWFINDER/MONITOR** No viewfinder/1.8in LCD
**OTHER** xD, Histogram, three colours
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 95 x 55.5 x 275mm/115g

5 Mega Pixels

*PROS* Black finish very tactile
*CONS* Images better then expected but not perfect
***SUMMARY*** ***Style over substance, adequate images with some decent features***

WDC SCORE **81%** TESTED July 2005

## £160 Estimated Street Price (£200 RRP) — Samsung L50

**CCD** 5MP effective/5.36MP Total
**LENS** 39-109mm f3.2-5.4
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 50, 100,200, 400
**EXPOSURE MODES** Auto, Program, 11 scene
**FLASH** 0.2.5m-2.0m (W) / 0.3-1.5m (T)
**VIEWFINDER/MONITOR** None/ 2.5in LCD 230,000 pixel
**OTHER** SD, 26MB internal, 30fps movie with stabilizer
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 93.3 x 52.1 x 22.3mm/120g

5 Mega Pixels

*PROS* LCD size, lightweight
*CONS* Menu is not very user-friendly
***SUMMARY*** ***Nice point and shoot, producing pleasing photos. Complicated menus***

WDC SCORE **83%** TESTED Dec 2005

## £160 Estimated Street Price (£250 RRP) — Samsung i5

**CCD** 5MP effective, 5.1MP total
**LENS** 39-117mm f3.5 - f4.5
**SHUTTER SPEED** 16 - 1/2000 sec
**ISO** Auto, 100/200/400
**EXPOSURE MODES** Auto, M, 11 Scene
**FLASH** 0.2m - 2.4m (W)/ 0.3-1.9m (T)
**VIEWFINDER/MONITOR** None / 2.5in LCD
**OTHER** SD, 30fps video, movie with stabiliser
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 89.6 x 59.8 x 17.3mm/133g

5 Mega Pixels

*PROS* Fast start-up, feature set
*CONS* Over-complicated menu
***SUMMARY*** ***Good looking and well featured, but the menu systems are tricky***

WDC SCORE **82%** TESTED Nov 2005

## £170 Estimated Street Price (£170 RRP) — Casio EX-Z10

**CCD** 5MP total, 5.25MP effective
**LENS** 38-114mm f3.1-5.4
**SHUTTER SPEED** 1/8 - 1/2000th sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES:** Auto, M, A, S, 28 Scene modes
**FLASH** 0.4-3.1m (W)/ 0.4-1.8 (T)
**VIEWFINDER/MONITOR** Optical/2in LCD 84,960 pixels
**OTHER** SD, 23Mb int, USB 2.0, 64x480 pixel 30fps movies
**POWER** 2x AA
**DIMENSIONS/WEIGHT** 90 x 60 x 27.2mm/138g

5 Mega Pixels

*PROS* Feature set, price
*CONS* Image noise, LCD resolution, menu system
***SUMMARY*** ***Great features for the price, but not very user-friendly***

WDC SCORE **83%** TESTED Feb 2006

## £170 Estimated Street Price (£220 RRP) — Olympus MJU 600

**CCD** 6MP effective/6.4MP Total
**LENS** 35-105mm f3.1-5.2
**SHUTTER SPEED** 4 - 1/1000 sec
**ISO** Auto, 100, 200, 400, 800, 1600
**EXPOSURE MODES** P, 23 Scene, movie
**FLASH** Built in, GN 6.5
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** xD, 8MB internal, 640x480 15fps movies
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 97 x 55 x 26.5mm/140g

6 Mega Pixels

*PROS* LCD in low light, start-up speed
*CONS* Some soft images, LCD in bright sunlight
***SUMMARY*** ***Attractive, well built, ultimately impressing, but limited manual features***

WDC SCORE **84%** TESTED Dec 2005

## £170 Estimated Street Price (£260 RRP) — Kodak Z740

**CCD** 5.36MP CCD, 5.0MP effective
**LENS** 38-380mm f2.8-3.7
**SHUTTER SPEED** 8 - 1/1000sec
**ISO** Auto plus ISO 80,100, 200, 400, 800
**EXPOSURE MODES** P, A, S, M, 16 Scene, Mov
**FLASH** Built in GN 10.6
**VIEWFINDER/MONITOR** Electronic/1.8in LCD
**OTHER** SD/MMC, 35MB internal storage, USB and 640 x 480 movie
**POWER** 2x AA, 1x CR-V3 or EasyShare dock with Ni-MH battery pack
**DIMENSIONS/WEIGHT** 97.6 x 77.5 x 72mm/287g

5 Mega Pixels

*PROS* 10x optical zoom, comfortable to hold
*CONS* Fringing, no manual white balance, fiddly joystick
***SUMMARY*** ***Easy to use with plenty of features, some image quality issues***

WDC SCORE **82%** TESTED May 2005

## £170 Estimated Street Price (£230 RRP) — Olympus FE 5500

**CCD** 4.9MP effective, 5.3MP total
**LENS** 35-105mm f/2.8-4.8
**SHUTTER SPEED** 2 - 1/2000sec
**ISO** Auto, 80, 100, 200, 400, 800 (1.8MP)
**EXPOSURE MODES** Auto, Scene
**FLASH** 3.5m (W) / 5m (T)
**VIEWFINDER/MONITOR** None/2-inch LCD 115,000 pixels
**OTHER** xD, Pictbridge, 14MB int
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 94 x 61 x 24mm/175g

5 Mega Pixels

*PROS* Easy to use, good for snapshots
*CONS* Uninspiring, fringing, cold colour
***SUMMARY*** ***Average, if uninspiring beginner model with interesting lens construction***

WDC SCORE **82%** TESTED Nov 2005

## £170 Estimated Street Price (£229 RRP) — KonicaMinolta X60

**CCD** 5.4MP total /5.0 MP effective
**LENS** 38-114mm f/3.3 – 4.0
**SHUTTER SPEED** 4-1/1000sec
**ISO** A, 50, 100, 200, 400
**EXPOSURE MODES** Auto, P, 6 Scene modes
**FLASH** Built in
**VIEWFINDER/MONITOR** None/2.5in LCD
**OTHER** 15MB internal memory, SD, 3 filters
**POWER** Li-ion cell
**DIMENSIONS/WEIGHT** 83.5 x 56 x 22mm/115g

5 Mega Pixels

*PROS* Large LCD size, fast startup
*CONS* Limited features, image noise
***SUMMARY*** ***Despite limited features, this is quick, easy to operate and capable***

WDC SCORE **83%** TESTED Sept 2005

## £170 Estimated Street Price (£279 RRP) — Sony W5

**CCD** 5.25MP CCD, 5.1 MP effective
**LENS** 38-114mm f2.8-5.2
**SHUTTER SPEED** 30 - 1/1000sec
**ISO** Auto, 100, 200, 400
**EXPOSURE MODES** Program, Manual, 7 scene modes
**FLASH** Built in 0.2-4.5 (W) 0.3-2.5 (T)
**VIEWFINDER/MONITOR** Optical/2.5in LCD
**OTHER** MS, MS Pro, 32MB internal
**POWER** Nikon EN-EL8
**DIMENSIONS/WEIGHT** 91 x 60 x 37.1mm/253g

5 Mega Pixels

*PROS* LCD screen, fast operation, sturdy build
*CONS* No separate playback button, less effective in low light
***SUMMARY*** ***Sturdy, quick and produces good images – a family compact***

WDC SCORE **86%** TESTED Aug 2005

## £180 Estimated Street Price (£230 RRP) — Olympus Mju 700

**CCD** 7MP
**LENS** 37-111mm f3.4-5.7
**SHUTTER SPEED** 1/2 - 1/1000sec
**ISO** Auto, 64, 100, 200, 400, 800, 1600
**EXPOSURE MODES** Auto, P, 23 scene modes
**FLASH** GN 7
**VIEWFINDER/MONITOR** None/2.5in LCD
**OTHER** xD, 640x480 video, Pictbridge, Histogram
**POWER** LI-42B Li-ion battery pack with charger
**DIMENSIONS/WEIGHT** 94.8 x 56 x 20.4mm/103g

7 Mega Pixels

*PROS* Lightweight, large LCD, excellent exposures
*CONS* Image shadow noise, slight lens softness
***SUMMARY*** ***A good-looking model, but has some noise which won't affect snappers***

WDC SCORE **88%** TESTED Apr 2006

YYePG Proudly Presents, Thx for Support

# THE BUYERS' GUIDE

## cameras up to £200

### £180 Estimated Street Price (£230 RRP) — Ricoh R1V

**CCD** 5.2MP (total) 5.1MP (Effective)
**LENS** 28-135mm f/3.3-4.8
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** 64-800 plus auto
**EXPOSURE MODES:** P, plus 6 Scene modes
**FLASH** Built-in GN 9m at ISO100
**VIEWFINDER/MONITOR** 1.8in LCD
**OTHER** 1cm macro focusing, text recording mode
**POWER** 2xAA/Lithium-ion cell
**DIMENSIONS/WEIGHT** 100 x 55 x 25mm/150g

5 Mega Pixels

*PROS* Build, focal length range, excellent macro
*CONS* Images a bit grainy

WDC SCORE **83%** TESTED May 2005

***SUMMARY*** ***Well built, with decent feature set, though image grain is disappointing***

### £180 Estimated Street Price (£280 RRP) — Nikon S1

**CCD** 5.36MP total, 5.0MP effective
**LENS** 35-105mm f/3.0 – f/5.4
**SHUTTER SPEED** 2 - 1/350sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Program, 13 scene, 4 scene assist
**FLASH** Built in
**VIEWFINDER/MONITOR** No viewfinder / 2.5in LCD
**OTHER** SD, 12MB internal
**POWER** Nikon EN-EL8
**DIMENSIONS/WEIGHT** 89.9 x 57.5 x 19.mm/118g

5 Mega Pixels

*PROS* Large LCD screen, easy to operate, D-lighting
*CONS* Often tricky macro focusing, eats battery power

WDC SCORE **84%** TESTED July 2005

***SUMMARY*** ***Stylish and easy to use with limited features***

### £180 Estimated Street Price (£280 RRP) — Olympus Mju 500

**CCD** 5MP effective
**LENS** 35-105mm f/3.1-5.6
**SHUTTER SPEED** 4 - 1/1000sec
**ISO** 64-640
**EXPOSURE MODES** P, Sc, Mov, ±2EV
**FLASH** GN 7.8
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** xD, PictBridge, 1.5fps for 4 frames
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 99 x 55.5 x 31mm/165g

5 Mega Pixels

*PROS* Build quality, image colour & sharpness, LCD
*CONS* Some image noise, limited control

WDC SCORE **87%** TESTED Apr 2005

***SUMMARY*** ***Weatherproof and simple to use, with a great LCD screen***

### £180 Estimated Street Price (£250 RRP) — Sanyo Xacti E6

**CCD** 7MP effective/6.37MP Total
**LENS** 38-114mm f3.3-4.0
**SHUTTER SPEED** 2sec (lamp) - 1/2000sec
**ISO** 50, 100, 200, 400, max 1800 (Lamp)
**EXPOSURE MODES** P, 7 scene modes
**FLASH** 10cm-2.4m (W)/ 50cm-2m(T) GN 5.6
**VIEWFINDER/MONITOR** None/ 3in LCD 230,000 pixels
**OTHER** SD/MMC, 16Mb int, 7 filters, 640x480 30fps movies
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 97.7 x 59.5 x 22.8/134g

6 Mega Pixels

*PROS* Fast startup
*CONS* Noise, lack of shooting info, exposures

WDC SCORE **78%** TESTED Jan 2006

***SUMMARY*** ***Attractive, but rather difficult to use and image noise is a problem***

### £180 Estimated Street Price (£300 RRP) — Samsung V700

**CCD** 7.1MP effective
**LENS** 38-114mm
**SHUTTER SPEED** 15sec - 1/2000sec
**ISO** Auto, 50,100,200,400
**EXPOSURE MODES** P, A, S, M, Sc, Mov, ±2EV
**FLASH** Built in
**VIEWFINDER/MONITOR** Yes/1.8in LCD
**OTHER** SD, Composite mode, Pictbridge, Histogram USB2
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 56.5 x 105 x 29.5mm/150g

7 Mega Pixels

*PROS* Good noise control, plenty of features
*CONS* Difficult to use features effectively, artefacts

WDC SCORE **80%** TESTED May 2005

***SUMMARY*** ***Packed with features, tricky to operate and images are over processed***

### £190 Estimated Street Price (£240 RRP) — Panasonic LZ2

**CCD** 5.36MP total, 5MP effective
**LENS** 37-222mm f2.8-4.5
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** 64-400
**EXPOSURE MODES** Program, Sc, Mov
**FLASH** Built in
**VIEWFINDER/MONITOR** 2in LCD
**OTHER** SD, Image Stabilisation
**POWER** 2x AA
**DIMENSIONS/WEIGHT** 101 x 64 x 33mm/224g

5 Mega Pixels

*PROS* Lens, price, image stabilisation
*CONS* Some image noise, bulkier than most compacts

WDC SCORE **88%** TESTED July 2005

***SUMMARY*** ***Fantastic lens and good colour at very reasonable price***

### £190 Estimated Street Price (£299 RRP) — Fujifilm Z1

**CCD** 5.1MP effective
**LENS** 36-108mm f/3.5-8.3
**SHUTTER SPEED** 4 - 1/1000sec
**ISO** Auto, 64-800
**EXPOSURE MODES** P + 5 Scene
**FLASH** Built-in
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** 640x480 15fps Video, xD
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 90 x 55 x 18.6mm/130g

5 Mega Pixels

*PROS* Design, ease of use, build quality
*CONS* Limited overrides, some lens distortion

WDC SCORE **85%** TESTED Oct 2005

***SUMMARY*** ***Attractive, pretty fast and capable of decent pictures***

### £190 Estimated Street Price (£250 RRP) — Fujifilm Z2

**CCD** 5MP
**LENS** 36-108mm f/3.5-4.0
**SHUTTER SPEED** 4 - 1/1000sec
**ISO** Auto, 64-1600
**EXPOSURE MODES** P, Auto, 5 scene modes
**FLASH** 0.3m-3m (W)/ 0.6m-2.3m (T)
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** xD, USB 2.0, 640x480 30fps movies
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 90 x 55.2 x 18.6mm/130g

5 Mega Pixels

*PROS* High 1600 ISO, well built, stylish white option
*CONS* Lack of metering, can't zoom in movie mode

WDC SCORE **84%** TESTED Apr 2006

***SUMMARY*** ***Decent point-and-shoot model with good design and nice features***

### £190 Estimated Street Price (£300 RRP) — Panasonic FX8

**CCD** 5MP
**LENS** 35-105mm f/2.8-5.6
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** 80-400
**EXPOSURE MODES** Program AE, 12 Sc, Mov
**FLASH** 0.3-4.0m (Wide/ISO Auto), 0.3-2.2m (Tele/ISO Auto)
**VIEWFINDER/MONITOR** None/2.5in LCD
**OTHER** SD, Image Stabilisation (OIS), continuous shooting
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 94.1 x 50.5 x 24.2mm/155g

5 Mega Pixels

*PROS* Mega OIS, LCD, video, simplicity
*CONS* Cramped thumb space, average image quality

WDC SCORE **85%** TESTED Sept 2005

***SUMMARY*** ***Competent lifestyle camera with great movie mode and stabilisation***

### £190 Estimated Street Price (£280 RRP) — Nikon P2

**CCD** 5.1MP effective
**LENS** 36-126mm f/2.7-5.2
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** Auto, 64, 100, 200, 400
**EXPOSURE MODES** Auto, P, A, 16 Sc
**FLASH** Built-in/GN11
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** SD/MMC, 640x480 15fps Video, USB 2.0
**POWER** EN-EL8 Li-ion rechargeable battery pack
**DIMENSIONS/WEIGHT** 91 x 60 x 39 x/185g

5 Mega Pixels

*PROS* Metering, AF, exposure, range of features
*CONS* No optical viewfinder, no storage card

WDC SCORE **85%** TESTED Jan 2006

***SUMMARY*** ***Easy to use, innovative Wi-Fi technology and decent picture quality***

### £190 Estimated Street Price (£299 RRP) — KonicaMinolta Dimage X1

**CCD** Total 8.3MP, Effective 8.0MP
**LENS** 37-111mm f3.5-3.8
**SHUTTER SPEED** 1 - 1/1250sec
**ISO** Auto, 50 -200 (Auto 50-160)
**EXPOSURE MODES** P, 7 Scene modes
**FLASH** Auto plus 5 modes
**VIEWFINDER/MONITOR** None/ 2.5in LCD, 115,000 pixels
**OTHER** 640x480 pixels 30fps, SD
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 95 x 68 x 19.5mm/135g

8 Mega Pixels

*PROS* Anti-shake, image size, LCD size
*CONS* Slow in review mode

WDC SCORE **86%** TESTED Nov 2005

***SUMMARY*** ***High resolution, and easy to use with a bundle of features***

### £200 Estimated Street Price (£220 RRP) — Ricoh R30

**CCD** 5.1MP effective
**LENS** 28-160mm f3.3-4.8
**ISO** Auto, 64-800
**SHUTTER SPEED** 8 - 1/2000sec
**EXPOSURE MODES** P, 8 Scene
**FLASH** 0.2m-2.4m (W) - 1.14-1.85 (T)
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** 320x240 AVI movie, SD/MMC, 28MB internal
**POWER** Lithium ion cell
**DIMENSIONS/WEIGHT** 95 x 26 x 53mm/135g

5 Mega Pixels

*PROS* 1cm macro, fast start, battery life, lens
*CONS* Noise in shadow areas, limited controls

WDC SCORE **85%** TESTED Mar 2006

***SUMMARY*** ***Versatile wideangle lens and reasonable price. A good overall package***

### £200 Estimated Street Price (£270 RRP) — HP R818

**CCD** 5.13MP effective
**LENS** 36-180mm f/2.8-4.7
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 50-400
**EXPOSURE MODES** M, A, S, P + 11 Scene
**FLASH** Built-in Auto + 4 modes
**VIEWFINDER/MONITOR** None/ 2in LCD
**OTHER** 640x480 30fps Video, SD
**POWER** Lithium ion cell
**DIMENSIONS/WEIGHT** 93 x 57 x 30mm/190g

5 Mega Pixels

*PROS* Build, features, control balance of buttons & menus
*CONS* Occasionally a little slow

WDC SCORE **86%** TESTED Mar 2006

***SUMMARY*** ***No-nonsense model delivering excellent results with minimal fuss***

### £200 Estimated Street Price (£200 RRP) — BenQ X600

**CCD** 6MP effective
**LENS** 37.5-112.5mm f/2.7-5.2
**SHUTTER SPEED** 4 - 1/2000sec
**ISO** Auto, 64-800
**EXPOSURE MODES** P, 10 Scene
**FLASH** 4 modes, max range 2.7m
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** 640x480 30fps Video, SD storage
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 85.5 x 53.5 x 19mm/100g

6 Mega Pixels

*PROS* Wide specification
*CONS* Fiddly five-way controller

WDC SCORE **81%** TESTED Mar 2006

***SUMMARY*** ***Reasonably priced, but performance doesn't match the promise***

### £200 Estimated Street Price (£279 RRP) — Casio EX-Z500

**CCD** 5MP effective
**LENS** 36-114mm f/2.7-5.2
**SHUTTER SPEED** 1/8 - 1/2000sec
**ISO** Auto, 50-400
**EXPOSURE MODES** P, + 31 Scene
**FLASH** Built-in auto, 4 modes, max range 2.4m
**VIEWFINDER/MONITOR** None/ 2.7in LCD
**OTHER** 640x480 @ 30fps Video, SD
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 88.5 x 57 x 20mm/112g

5 Mega Pixels

*PROS* Attractive, big screen, uncluttered layout
*CONS* LCD colour, some controls in menus

WDC SCORE **83%** TESTED Mar 2006

***SUMMARY*** ***At its best in bright sunlight; results are less pleasing in low light***

YYePG Proudly Presents, Thx for Support

## £200 Estimated Street Price (£299 RRP) — Fujifilm F10

**CCD** 6.63 Total, 6.3MP effective
**LENS** 36-108mm f2.8-5
**SHUTTER SPEED** 3 - 1/2000sec
**ISO** 80-1600
**EXPOSURE MODES** Program, Scene, Mov
**FLASH** Built-in, 4m(W) - 6.5m(T)
**VIEWFINDER/MONITOR** None/2.5in LCD
**OTHER** xD storage
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 92 x 58 x 27.3mm/200g

6 Mega Pixels

*PROS* Big LCD, handling, low-light performance
*CONS* Little manual control, no RAW

WDC SCORE **87%**

*SUMMARY* **Stylish, responsive, producing excellent images. Good ISO performance**

TESTED June 2005

## £200 Estimated Street Price (£300 RRP) — Pentax WPi

**CCD** Total 6.4MP/ effective 6.1MP
**LENS** 38-114 mm f3.3-4.0
**SHUTTER SPEED** 2sec - 1/2000sec
**ISO** Auto, 64, 100, 200, 400
**EXPOSURE MODES** P, Auto, 11 scene
**FLASH** 3.1m
**VIEWFINDER/MONITOR** None/2in LCD 115,000 pixels
**OTHER** SD, 10.5MB int, 7 filters, 320x240 fps movie, Water resistant
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 102 x 51 x 22mm/135g

6 Mega Pixels

*PROS* Waterproof, ease of use, sharpness
*CONS* Image noise, slow continuous drive

WDC SCORE **84%**

*SUMMARY* **A competent camera, offering simple operation and water proofing**

TESTED Feb 2006

## £210 Estimated Street Price (£250 RRP) — Pentax S6

**CCD** Total 6MP, Effective 6.36MP
**LENS** 37.5-112.5mm f/2.7-5.2
**SHUTTER SPEED** 4 - 1/2000sec
**ISO** Auto, 64, 100, 200, 400
**EXPOSURE MODES** P, A, S, M, 11 Scene, panorama
**FLASH** 15cm-5.1m (W)/ 40cm-2.7m (T)
**VIEWFINDER/MONITOR** None/ 2.5in 232,000-pixel LCD
**OTHER** SD, 23MB internal, six filters, 640x480 movies
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 85.5 x 53.5 x 19mm/235g

6 Mega Pixels

*PROS* Lightweight, large LCD, easy to use
*CONS* Slow start-up and focusing, limited features

WDC SCORE **83%**

*SUMMARY* **Well built, but images and performance don't live up to expectations**

TESTED Feb 2006

## £200 Estimated Street Price (£275 RRP) — Olympus IR-300

**CCD** 5MP
**LENS** 38-114mm f3.3-4.0
**SHUTTER SPEED** 4 - 1/2000 sec
**ISO** Auto
**EXPOSURE MODES:** P, plus 17 Scene modes
**FLASH** 0.3m-2.6m (W) 0.5m-2.1m (T) GN 6.0
**VIEWFINDER/MONITOR** None/2in LCD
**OTHER** xD
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 99 x 53 x 22mm /112g

5 Mega Pixels

*PROS* Lightweight, easy to operate
*CONS* No ISO control, editing features fair, manual on the CD

WDC SCORE **82%**

*SUMMARY* **Takes decent photographs, but overall a very average, overpriced camera**

TESTED Oct 2005

## £200 Estimated Street Price (£299RRP) — Sony P200

**CCD** 7.2MP effective
**LENS** 38-114mm f2.8 – f/5.2
**SHUTTER SPEED** 30 – 1/1000th sec
**ISO** Auto, 100, 200, 400
**EXPOSURE MODES** Program & 9 scene modes
**FLASH** Built in
**VIEWFINDER/MONITOR** Optical / 2in LCD
**OTHER** MS, MS Pro
**POWER** InfoLITHIUM NP-FR1
**DIMENSIONS/WEIGHT** 104 x 51.5 x 27.9mm/180g

7 Mega Pixels

*PROS* Fast, good-quality images, build
*CONS* LCD visibility in bright sunlight

WDC SCORE **84%**

*SUMMARY* **Impressively specified in a small body, but images are noisy**

TESTED July 2005

## £210 Estimated Street Price (£329 RRP) — Sony W7

**CCD** 7.4MP total, 7.0MP effective
**LENS** 38-114mm f2.8-5.2
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 100-400
**EXPOSURE MODES** Auto, M, 6 scene modes
**FLASH** Built-in
**VIEWFINDER/MONITOR** Opt/2.5inch LCD
**OTHER** MS, slot, 32MB internal
**POWER** 2x AA
**DIMENSIONS/WEIGHT** 91 x 60 x 37.1mm/ 253g

7 Mega Pixels

*PROS* Great performer all round
*CONS* High-resolution images

WDC SCORE **86%**

*SUMMARY* **Good specs and handling, great images, use a tripod in low light levels**

TESTED July 2005

## £200 Estimated Street Price (£279 RRP) — Casio EX-Z57

**CCD** 5MP
**LENS** 35-105mm, f2.6-4.8
**SHUTTER SPEED** 4sec - 1/2000sec
**ISO** Auto, 50,100,200,400
**EXPOSURE MODES** P, BestShot modes
**FLASH** Built in 0.2-2.6m
**VIEWFINDER/MONITOR** None/2.7in LCD
**OTHER** MS, MS Pro
**POWER** Superlife Rechargeable Li-Ion
**DIMENSIONS/WEIGHT** 87 x 58 x 22.5mm/130g

5 Mega Pixels

*PROS* Compact size, BestShot modes, battery life
*CONS* No AV connection, lack of space around back

WDC SCORE **83%**

*SUMMARY* **Not the easiest to operate, but a decent camera with satisfactory results**

TESTED Aug 2005

## £200 Estimated Street Price (£319 RRP) — Canon IXUS iZoom

**CCD** 5.5MP CCD, 5.0 MP effective
**LENS** 38-90mm f/3.2-5.4
**SHUTTER SPEED** 15 - 1/1600 sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Auto, 'manual', 6 Scene modes
**FLASH** Built in 0.3-2m
**VIEWFINDER/MONITOR** None / 1.8in LCD, 118,000 pixels
**OTHER** SD/MMC
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 96 x 45 x 24mm / 105g

5 Mega Pixels

*PROS* Compact size, easy to use modes, battery life
*CONS* Limited overrides, limited zoom range

WDC SCORE **79%**

*SUMMARY* **An effective, if not groundbreaking, performance**

TESTED Dec 2005

## £210 Estimated Street Price (£300 RRP) — Kodak V550

**CCD** Total 5.36MP, Effective 5.0MP
**LENS** 36-108mm
**SHUTTER SPEED** 8 - 1/1448sec
**ISO** Auto, 80-800
**EXPOSURE MODES** Auto + 20 Scene modes, video
**FLASH** Built in, 2.6-6m
**VIEWFINDER/MONITOR** OPT/ 2.5in LCD, 230,000 pixels
**OTHER** SD card plus 32MB internal, camera dock
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 94 x 56 x 22mm/143g

5 Mega Pixels

*PROS* Simple, good images
*CONS* Video zoom noise, can't disable digital zoom

WDC SCORE **85%**

*SUMMARY* **Smart, simple and effective, video mode is disappointing**

TESTED Special 05

## £200 Estimated Street Price (£320 RRP) — Nikon S2

**CCD** 5.1MP effective
**LENS** 35-105mm f/3-5.4
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** 50-400
**EXPOSURE MODES** Auto, 15 Sc, Mov
**FLASH** 0.3-2.5m (Wide/ISO Auto), 0.3-1.4m(Tele/ISO Auto)
**VIEWFINDER/MONITOR** None/ 2.5in
**OTHER** SD, all weather, USB camera dock
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 91.9 x 59 x 22mm/140g

5 Mega Pixels

*PROS* Good front design, good scene modes, all-weather
*CONS* Cramped back, corner sharpness, lens distortion

WDC SCORE **80%**

*SUMMARY* **Looks great, but let down by image quality and handling issues**

TESTED Sept 2005

## £210 Estimated Street Price (£280 RRP) — Fujifilm S5600

**CCD** Total 5.2MP, Effective 5.1MP
**LENS** 38-380mm f3.2-3.5
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 64-400
**EXPOSURE MODES** P, + 18 scene, ±2EV
**FLASH** Built-in, Auto plus 3 modes
**VIEWFINDER/MONITOR** EVF/ 2inch 115,000-pixel LCD
**OTHER** 640x480 15fps Video, xD
**POWER** 4x AA
**DIMENSIONS/WEIGHT** 88 x 60 x 36.5mm/150g

5 Mega Pixels

*PROS* Image quality, handling
*CONS* Oversharpening, no stabilisation

WDC SCORE **86%**

*SUMMARY* **Has good handling and performance, and it's easy-to-use too**

TESTED Special 05

## £220 Estimated Street Price (£280 RRP) — Casio S600

**CCD** 6MP
**LENS** 38-114mm f2.7-5.2
**SHUTTER SPEED** 4 - 1/2000 sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** P, 32 scene modes
**FLASH** 0.4-2.8m (W)/ 0.4-1.4m (T)
**VIEWFINDER/MONITOR** None/ 2.5in LCD, 84,960 pixels
**OTHER** SD card, USB 2.0, 8.3MB internal memory
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 90 x 59 x 16.1mm/115g

6 Mega Pixels

*PROS* Compact dimensions, build quality
*CONS* Some commands hidden in menu; macro mode

WDC SCORE **83%**

*SUMMARY* **Suits those who want small and compact rather than a serious tool**

TESTED Apr 2006

## £200 Estimated Street Price (£250 RRP) — HP R817

**CCD** 5.31MP total, 5.1MP effective
**LENS** 36-180mm
**SHUTTER SPEED** 15-1/2000sec
**ISO** Auto, 50-400
**EXPOSURE MODES** M, A, S, P, Auto, Scene
**FLASH** 3.8-8m
**VIEWFINDER/MONITOR** None/2inch 153,000 pixels
**OTHER** Real Life Technologies, SD, JPEG, PictBridge
**POWER** Li-ion battery
**DIMENSIONS/WEIGHT** 91 x 30 x 57mm/ 190g

5 Mega Pixels

*PROS* Good feature set, easy to use, value for money
*CONS* ISO 200+ noise, video mode, spoilable finish

WDC SCORE **86%**

*SUMMARY* **Specifications and features make it attractive for the first-time buyer**

TESTED Nov 2005

## £210 Estimated Street Price (£300 RRP) — Nikon S3

**CCD** Total 6.4MP, Effective 6.0MP
**LENS** 35-105mm f/3-5.4
**SHUTTER SPEED** 2 - 1/350sec
**ISO** Auto, 50-400
**EXPOSURE MODES** Auto, 16 scene
**FLASH** Built-in, Auto plus 3 modes
**VIEWFINDER/MONITOR** None/ 2.5inch LCD, 110,000 pixels
**OTHER** 640x480 Video, SD, 12MB internal memory
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 90 x 57.5 x 19.5mm/118g

6 Mega Pixels

*PROS* Colour rendition
*CONS* Some barrel distortion

WDC SCORE **82%**

*SUMMARY* **Great looking and capable of good pictures with little user interference**

TESTED Feb 2006

## £220 Estimated Street Price (£280 RRP) — Sony T5

**CCD** 5.1MP effective
**LENS** 38-114mm f3.5-4.5
**SHUTTER SPEED** 1/8 - 1/1000sec
**ISO** 64-400
**EXPOSURE MODES** Auto, P, Scene modes, Mov
**FLASH** Built in, GN8
**VIEWFINDER/MONITOR** Opt/2.5in LCD
**OTHER** Memory Stick Duo, 680x480 30fps movies, USB 2.0
**POWER** Lithium-ion rechargeable battery pack
**DIMENSIONS/WEIGHT** 93.6 x 60 x 20.3mm/114g

5 Mega Pixels

*PROS* Good image quality, metering and AF, styling
*CONS* No optical viewfinder, slow menus, basic controls

WDC SCORE **86%**

*SUMMARY* **Attractive, compact and capable of producing great pictures**

TESTED Jan 2006

YYePG Proudly Presents, Thx for Support

# THE BUYERS' GUIDE

## cameras £200 - £300

### £220 Estimated Street Price (£330 RRP) — Casio EX-Z750

**CCD** 7.4MP total, 7.2MP effective
**LENS** 38-114mm f/2.8-5.1
**SHUTTER SPEED** 60 - 1/6000sec
**ISO** 50-400
**EXPOSURE MODES** Snapshot, M, A, S, 30 scene
**FLASH** Built-in GN8
**VIEWFINDER/MONITOR** OPT/2.5in LCD
**OTHER** SD
**POWER** Li-Ion cell
**DIMENSIONS/WEIGHT** 89 x 58.5 x 22.5mm/ 127g

7 Mega Pixels

*PROS* Movie modes, scene modes
*CONS* LCD, Colour accuracy, images no better than 5MP

WDC SCORE **82%**

*SUMMARY* **Good movie and scene modes, extra pixels contribute little**

TESTED July 2005

### £220 Estimated Street Price (£299 RRP) — Olympus Mju 800

**CCD** Total 8.3MP, Effective 8.0MP
**LENS** 38-114mm f/2.8-4.9
**SHUTTER SPEED** 4 - 1/2000sec
**ISO** Auto, 64-1600
**EXPOSURE MODES** P, A, S + 19 scene
**FLASH** Built-in, Auto plus 3 modes
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** 640x480 15fps Video, xD card and 19MB int
**POWER** Lithium-ion cell
**DIMENSIONS/WEIGHT** 103 x 58 x 33mm/181.5g

8 Mega Pixels

*PROS* Image quality, LCD screen, build quality
*CONS* Left-hand backplate button visibility in bright sun

WDC SCORE **86%**

*SUMMARY* **Good looking camera, producing high-quality images**

TESTED Oct 2005

### £220 Estimated Street Price (£319 RRP) — Canon A620

**CCD** 7.1MP effective/7.4MP Total
**LENS** 35-140mm f2.8-4.1
**SHUTTER SPEED** 15 - 1/2500sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Auto, P, A, S, M, Cust, 11 scene
**FLASH** 45cm-4.2m (W)/ 3m (T)
**VIEWFINDER/MONITOR** OPT/2.0in TFT 115,000 pixels
**OTHER** SD/MMC, My Colours 640x480 30fps movies
**POWER** 4xAA
**DIMENSIONS/WEIGHT** 104.8 x 66 x 49.1mm/235g

7 Mega Pixels

*PROS* Wide range of features, easy to use
*CONS* AiAF not always accurate

WDC SCORE **88%**

*SUMMARY* **With features suitable for both novices and enthusiasts, this is great value**

TESTED Jan 2006

### £230 Estimated Street Price (£320 RRP) — Nikon 7900

**CCD** 7.41MP CCD, 7.1MP effective
**LENS** 38-114mm f2.8-4.9
**SHUTTER SPEED** 4 - 1/2000sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Program, scene modes, ±2 EV
**FLASH** Built in
**VIEWFINDER/MONITOR** Optical/2in LCD
**OTHER** SD, JPEG, 3 metering modes, D-Light, red-eye removal
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 88 x 60 x 36.5mm/150g

7 Mega Pixels

*PROS* Small, high resolution, good image noise control
*CONS* Image detail and sharpening, AF

WDC SCORE **83%**

*SUMMARY* **Contains innovative features, but produces overprocessed images**

TESTED June 2005

### £230 Estimated Street Price (£299 RRP) — Canon Ixus 55

**CCD** 5.0MP effective
**LENS** 35-105mm f2.8-4.9
**SHUTTER SPEED** 15 - 1/1500sec
**ISO** Auto, 50-400
**EXPOSURE MODES** Two Auto, 9 scene
**FLASH** Built-in, Auto and four modes
**VIEWFINDER/MONITOR** Optical/2.5in TFT, 115,000 pixels
**OTHER** SD, 640x480 30fps movies
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 86 x 53 x 21.5mm/140g

5 Mega Pixels

*PROS* Features, handling, speed of operation
*CONS* Noisy images, sharpness, erratic focusing

WDC SCORE **83%**

*SUMMARY* **Attractive and competent, if not a spectacular performer**

TESTED Feb 2006

### £230 Estimated Street Price (£350 RRP) — Panasonic FX9

**CCD** 6MP effective/6.37MP Total
**LENS** 35-105mm f2.8-5.0
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** Auto, 80, 100, 200, 400
**EXPOSURE MODES** Auto, P, 14 Scene
**FLASH** 0.3-4m (W) 0.3-2.2 (T)
**VIEWFINDER/MONITOR** None/ 2.5in LCD 207,000 pixels
**OTHER** SD, 30fps movie
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 94.1 x 50.5 x 24.2mm/155g

6 Mega Pixels

*PROS* LCD, anti-shake
*CONS* Limited space around back

WDC SCORE **86%**

*SUMMARY* **Great LCD, fast performer, producing good-quality pictures and movies**

TESTED Dec 2005

### £230 Estimated Street Price (£300 RRP) — Olympus SP-500UZ

**CCD** Total 6.37MP, Effective 6.0MP
**LENS** 38-380mm f/2.8-3.7
**SHUTTER SPEED** 15 - 1/1000sec
**ISO** Auto, 80, 100, 200, 400
**EXPOSURE MODES** M, A, S, P, Auto, 21 Scene
**FLASH** 0.3m - 4.5m (W) 1.2m-3.4 T, GN9
**VIEWFINDER/MONITOR** EVF 201,600pixel/ 2.5in LCD
**OTHER** 320x240 30fps Video, 10MB internal, xD
**POWER** 4x AA
**DIMENSIONS/WEIGHT** 105.5 x 74.5 x 71mm/285g

6 Mega Pixels

*PROS* RAW, Good functionality, LCD and EVF
*CONS* Fringing, some oversharpening and image noise

WDC SCORE **86%**

*SUMMARY* **Competent and useful, this is a viable backup to a DSLR**

TESTED Dec 2005

### £240 Estimated Street Price (£270 RRP) — Kodak V570

**CCD** Dual 5MP CCD
**LENS** 23mm f2.8, 39-117mm f3.9-4.4
**SHUTTER SPEED** 1/8 - 1/4000sec
**ISO** Auto, 64-160
**EXPOSURE MODES** Auto, landscape, macro + 20 scene
**FLASH** Built-in, Auto + 4 modes, GN 6.3
**VIEWFINDER/MONITOR** None/2.5in LCD
**OTHER** 640x480 30fps Video, SD
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 101 x 49 x 20mm/125g

5 Mega Pixels

*PROS* Flexible optical system, speed, aesthetics
*CONS* Limited ISO range, camera shake warnings

WDC SCORE **86%**

*SUMMARY* **Good look, capable of great shots, lacks ISO range and user overrides**

TESTED Mar 2006

### £240 Estimated Street Price (£300 RRP) — Fujifilm F11 Zoom

**CCD** 6.3MP
**LENS** 36-108mm f/2.8-5.0
**SHUTTER SPEED** 3 - 1/2000sec
**ISO** Auto, 80, 100, 200, 400, 800, 1600
**EXPOSURE MODES** P, SP, AP, Auto, 5 Scene
**FLASH** 0.3-6.5m (W) 0.3-4m (T)
**VIEWFINDER/MONITOR** None/2.5in LCD
**OTHER** USB 2.0, 640x480 30fps movie, xD
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 92 x 58.2 x 27.3mm/155g

6 Mega Pixels

*PROS* High ISO, control over aperture and shutter
*CONS* Occasional fringing and standard zoom range

WDC SCORE **89%**

*SUMMARY* **A super compact, attractive, great features and good performer**

TESTED Mar 2006

### £240 Estimated Street Price (£310 RRP) — Olympus SP-350

**CCD** Total 8.3MP, Effective 8MP
**LENS** 38-114mm f/2.8-4.9
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 80, 100, 200, 400
**EXPOSURE MODES** Auto, M, A, S, P, 14 scene
**FLASH** Built in, Auto and four modes, hotshoe
**VIEWFINDER/MONITOR** Optical/2.5in LCD 115,000 pixels
**OTHER** 640x480 30fps Video, xD
**POWER** 2x AA, CRV-3 Lithium
**DIMENSIONS/WEIGHT** 99.5 x 65 x 35mm/180g

8 Mega Pixels

*PROS* Sturdy, natural colours, accurate exposures
*CONS* Camera shake, results at maximum resolution

WDC SCORE **86%**

*SUMMARY* **Good handling and performance; 8MP results can be disappointing**

TESTED Feb 2006

### £240 Estimated Street Price (£330 RRP) — Ricoh R3

**CCD** 5.25MP total, 5.13MP effective
**LENS** 28-200mm f/3.3-4.8
**SHUTTER SPEED** 8 - 1/2000sec
**ISO** Auto, 64-800
**EXPOSURE MODES** Auto plus 8 Scene
**FLASH** Built-in, Auto plus 3 modes
**VIEWFINDER/MONITOR** 2.5in 114,000 pixel LCD
**OTHER** 320x240 30fps Video, SD + 26MB Internal
**POWER** Li-Ion cell
**DIMENSIONS/WEIGHT** 95 x 53 x 26mm/135g

5 Mega Pixels

*PROS* Lots of useful features, great lens
*CONS* Some barrel distortion at 28mm, AF reticence

WDC SCORE **87%**

*SUMMARY* **Fast, flexible with a superb zoom range and image stabilisation**

TESTED Jan 2006

### £250 Estimated Street Price (£349 RRP) — Sony T7

**CCD** 5.1MP effective
**LENS** 38-114mm f3.5-4.4
**SHUTTER SPEED** 1/8 - 1/1000sec
**ISO** 64-400
**EXPOSURE MODES** Auto, Scene modes, Mov
**FLASH** Built in 0.1-2.6, Tele: 0.5-2.1
**VIEWFINDER/MONITOR** Opt/2.5in LCD
**OTHER** Memory Stick Duo, MPEG 1, Pict Bridge, USB 2.0
**POWER** Info Lithium
**DIMENSIONS/WEIGHT** 91.7 x 60.2 x 14.7mm/114g

5 Mega Pixels

*PROS* Good image quality, good looks
*CONS* Poor documentation, small and fiddly

WDC SCORE **80%**

*SUMMARY* **Competent performer, but fiddly to operate and needs a decent manual**

TESTED Aug 2005

### £250 Estimated Street Price (£330 RRP) — Sony T9

**CCD** 6MP
**LENS** 38-114mm f3.5-4.3
**SHUTTER SPEED** 1 - 1/1000sec
**ISO** Auto, 80-400
**EXPOSURE MODES** Auto, P + 10 scene
**FLASH** Built-in, Auto plus 3 modes
**VIEWFINDER/MONITOR** None/2.5in 230,600 pixel LCD
**OTHER** 640x480 @30fps Video, MS Duo PRO
**POWER** Li-Ion cell
**DIMENSIONS/WEIGHT** 90 x 55 x 20.5mm/160g

6 Mega Pixels

*PROS* Slim,fuss-free, excellent AF and exposures
*CONS* Confusing menu; lens cover can open too easily

WDC SCORE **83%**

*SUMMARY* **A stylish point and shooter, with bags of style and decent image quality**

TESTED Apr 2006

### £250 Estimated Street Price (£350 RRP) — Panasonic FZ5

**CCD** 5.0MP effective
**LENS** 36-432mm f/2.8-3.3
**SHUTTER SPEED** 8 - 1/1000sec
**ISO** Auto plus ISO 80,100, 200, 400
**EXPOSURE MODES** P,A,S,M, nine Scene & macro, Mov
**FLASH** Built-in flash, GN12.6m
**VIEWFINDER/MONITOR** EVF/1.8in LCD
**OTHER** SD/MMC, movie with sound at 320x240 pixels, 30 10 15fps
**POWER** 8.4V 680mAh Lithium Ion rechargeable cell
**DIMENSIONS/WEIGHT** 108 x 68.4 x 84.8mm /290g

5 Mega Pixels

*PROS* Great zoom range, excellent lens
*CONS* Noise in low light

WDC SCORE **85%**

*SUMMARY* **One of the best megazoom cameras around, producing good results**

TESTED May 2005

### £250 Estimated Street Price (£350 RRP) — KonicaMinolta Z6

**CCD** 6MP eff/6.4MP total
**LENS** 35-420mm f/2.8-4.5
**SHUTTER SPEED** 4 - 1/1000 sec
**ISO** Auto, 50, 100, 200, 320
**EXPOSURE MODES** AP, M, SP, Auto, 5 scene
**FLASH** ISO 100 equ 8m/26.2 ft
**VIEWFINDER/MONITOR** Electronic/2in TFT, 114,000 pixels
**OTHER** 320x240movie, 4 colour modes, 1cm super macro, SD
**POWER** 4x AA cells
**DIMENSIONS/WEIGHT** 108.5 x 80 x 84mm/340g

6 Mega Pixels

*PROS* Fast operation, lens
*CONS* Some components weak, LCD in bright light

WDC SCORE **85%**

*SUMMARY* **Packed with features, producing good results. Recommended**

TESTED Nov 2005

YYePG Proudly Presents, Thx for Support

## £260 Estimated Street Price (£329 RRP) — Nikon S4

**CCD** 6.0MP effective
**LENS** 38-380mm f3.5
**SHUTTER SPEED** 2 - 1/1000sec
**ISO** 50-400
**EXPOSURE MODES** Auto, 16 scene modes
**FLASH** 3.0m/10ft
**VIEWFINDER/MONITOR** None/ 2.5in LCD
**OTHER** Pictbridge, USB 2.0, SD cards, 13MB internal
**POWER** 2x Ni-MH AA (supplied), or 2x AA alkaline
**DIMENSIONS/WEIGHT** 111.5 x 68.5 x 37mm/205g

6 Mega Pixels

*PROS* Size, zoom range, image quality, performance
*CONS* No image stabilisation, no manual control

WDC SCORE 88%

***SUMMARY*** ***Great lens on small body, well made, good handing and image quality***

TESTED Special 05

## £280 Estimated Street Price (£419 RRP) — Canon IXUS 750

**CCD** 7.1MP effective/7.4MP Total
**LENS** 37-111mm f2.8-4.9
**SHUTTER SPEED** 15 - 1/2000 sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** P (manual), Auto, 9 Sc
**FLASH** 50cm-5m (W)/ 3m (T)
**VIEWFINDER/MONITOR** Optical/ 2.5in LCD, 115,000 pixels
**OTHER** SD/MMC, 5 photo effects, My colours, 640x480 30fps Mov
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 89.5 x 57 x 27.4mm/170g

7 Mega Pixels

*PROS* Fast operation, build
*CONS* Limited manual features, some fragile parts

WDC SCORE 85%

***SUMMARY*** ***Fast, well-built point and shoot, but limited feature set***

TESTED Special 05

## £280 Estimated Street Price (£300 RRP) — Ricoh GX8

**CCD** 8.5MP Total, 8.2MP effective
**LENS** 28-85mm f2.5-4.34
**SHUTTER SPEED** 30 - 1/2000sec
**ISO** 60-1600
**EXPOSURE MODES** Auto, A, M, six Scene
**FLASH** Built-in
**VIEWFINDER/MONITOR** OPT/1.8in
**OTHER** SD slot
**POWER** 2xAA
**DIMENSIONS/WEIGHT** 113.6 x 58 x 29mm/205g

8 Mega Pixels

*PROS* Lens, build, features
*CONS* Power consumption, LCD colour cast

WDC SCORE 81%

***SUMMARY*** ***Good lens, features and build. But it is power hungry and the LCD is poor***

TESTED Aug 2005

## £280 Estimated Street Price (£350RRP) — Kodak P850

**CCD** 5.1MP effective/5.25MP total
**LENS** 36-432mm f/2.8-3.7
**SHUTTER SPEED** 16 - 1/1000sec
**ISO** Auto, 50,64,80,100,125,200,250,320,400,800
**EXPOSURE MODES** Auto, M, A, S, P, 3 Custom
**FLASH** GN11 90cm-4.7m(W)/ 2m-3.6 (T)
**VIEWFINDER/MONITOR** Electronic/2.5-inch 237,000 pixels
**OTHER** 640x480 30fps movies, RAW, Tiff, SD/MMC, 32MB internal
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 108 x 84.3 x 72mm /403g

5 Mega Pixels

*PROS* Features, ISO settings, lens
*CONS* No AF lamp, slow processing, noise at high ISO

WDC SCORE 81%

***SUMMARY*** ***Great features and lens, but speed and handling can't match a DSLR***

TESTED Feb 2006

## £290 Estimated Street Price (£390 RRP) — Canon Ixus WIFI

**CCD** 5.0MP
**LENS** 35-105mm f/2.8-4.9
**SHUTTER SPEED** 15 - 1/15000sec
**ISO** Auto, 50-400
**EXPOSURE MODES** P + 10 scene
**FLASH** Built-in, Auto plus 4 modes
**VIEWFINDER/MONITOR** Optical/2in 118,000 pixel LCD
**OTHER** 640x480 @30fps Video, SD, WiFi
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 99 x 54.5 x 21.5mm/130g

5 Mega Pixels

*PROS* Fast wireless printing, broad spec, IXUS style
*CONS* Wifi downloading only works with XP

WDC SCORE 83%

***SUMMARY*** ***Nice enough camera but the Wireless has limited benefits***

TESTED Apr 2006

## £300 Estimated Street Price (£349 RRP) — Panasonic FZ7

**CCD** 6.0MP
**LENS** 36-432mm f2.8-3.3
**SHUTTER SPEED** 60 – 1/2000sec
**ISO** Auto, 80-400, (High Sens 800, 1600)
**EXPOSURE MODES** Auto, P,A,S,M, 16 sc
**FLASH** 0.3m – 6m (W) 0.3m - 5.4m (T)
**VIEWFINDER/MONITOR** Electronic/ 2.5in LCD
**OTHER** SD/MMC, 16:9 30fps movie 16:9 JPEG
**POWER** Lithium-ion
**DiMENSIONS/WEIGHT** 112.5 x 72.2 x 79mm/310g

6 Mega Pixels

*PROS* Lens, OIS, manual focus
*CONS* No RAW, noise from ISO 400, limited control

WDC SCORE 86%

***SUMMARY*** ***An improvement on previous models with some good features***

TESTED Apr 2006

## £300 Estimated Street Price (£280 RRP) — Fujifilm E900

**CCD** 9.0MP effective/Total 9.24MP
**LENS** 32-128mm f2.8-5.6
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 80-800
**EXPOSURE MODES** M, A, S, P + Auto + 4 Scene modes
**FLASH** Built-in, Auto, plus 3 modes
**VIEWFINDER/MONITOR** OPT/2in
**OTHER** 640x480 pixel 30fps video, xD
**POWER** 2x AA cells
**DIMENSIONS/WEIGHT** 106 x 63 x 34.5mm/200g

9 Mega Pixels

*PROS* Fantastic spec, great user control
*CONS* 9MP results not much better than 5MP

WDC SCORE 85%

***SUMMARY*** ***Good specification and value for money, but do we really need 9MP?***

TESTED Jan 2006

## £320 Estimated Street Price (£469 RRP) — Canon S2 IS

**CCD** 5.0MP effective
**LENS** 38-432mm f2.8-3.1
**SHUTTER SPEED** 15 - 1/3200sec
**ISO** 50-400
**EXPOSURE MODES** P, A, S, M, Auto, plus 6 Scene modes
**FLASH** Built-in pop-up
**VIEWFINDER/MONITOR** EVF / 1.8inch LCD
**OTHER** SD, Flexizone focus, Image Stabilisation
**POWER** 4x AA
**DIMENSIONS/WEIGHT** 113 x 78 x 75.5mm/405g

5 Mega Pixels

*PROS* Good AF, Image stabiliser ideal for 12x zoom
*CONS* Bit bulky, bit pricey, only saves to JPEG

WDC SCORE 81%

***SUMMARY*** ***Fast, good metering, focusing and stabilisation. Often unusual fringing***

TESTED Aug 2005

## £340 Estimated Street Price (£450 RRP) — Panasonic LX1

**CCD** 8.61MP total, 8.4MP effective
**LENS** 28-112mm f2.8-4.9
**SHUTTER SPEED** 60 - 1/2000sec
**ISO** Auto, 80-400
**EXPOSURE MODES** M, A, S, P, plus 14 Scene
**FLASH** Auto, plus 6
**VIEWFINDER/MONITOR** None/2.5in TFT, 207,000 pixels
**OTHER** 848x480 30fps movie, SD, Jpeg, RAW, TIFF
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 106 x 56 x 25.5mm/185g

8 Mega Pixels

*PROS* Fully featured, unique CCD format
*CONS* Noise can be an issue over ISO 100, expensive

WDC SCORE 85%

***SUMMARY*** ***Full specifications with simple handling, nice design and good build***

TESTED Nov 2005

## £340 Estimated Street Price (£450 RRP) — Kodak P880

**CCD** Total 8.1MP, Effective 8.0MP
**LENS** 24-140mm f/2.8-4.1
**SHUTTER SPEED** 16-1/4000sec
**ISO** Auto, 50-1600
**EXPOSURE MODES** M, A, S, P, 3 PIC + 8 scene
**FLASH** Built-in, Auto plus 3 modes
**VIEWFINDER/MONITOR** EVF/ 2inch 115,000 pixel LCD
**OTHER** 640x480 15fps Video, xD, 13MB internal
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 88 x 60 x 36.5mm/150g

8 Mega Pixels

*PROS* Great spec, useful focal lengths, high resolution
*CONS* Handling, noise in flat tonal areas even at ISO 50

WDC SCORE 83%

***SUMMARY*** ***Great specification and price point, producing rather ordinary images***

TESTED Special 05

## £350 Estimated Street Price (£500 RRP) — Canon S80

**CCD** 8.0 MP effective, 8.3MP total
**LENS** 28-100mm
**SHUTTER SPEED** 15 - 1/2000sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Auto, P,A,S,M, Sc, Mov
**FLASH** 4.2m(W) 2m (T)
**VIEWFINDER/MONITOR** OPT/ 2.5in, 115,000 pixels
**OTHER** SD
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 104 x 57 x 39mm/290g

8 Mega Pixels

*PROS* Interface, images, features
*CONS* No Raw, price

WDC SCORE 90%

***SUMMARY*** ***Great handling and picture quality, ideal for the advanced enthusiast***

TESTED Jan 2006

## £360 Estimated Street Price (£550 RRP) — Nikon D50

**CCD** 6.24MP/6.1MP effective
**LENS** Interchangeable
**SHUTTER SPEED** 30 - 1/4000sec, Bulb
**ISO** 200-1600
**EXPOSURE MODES** Auto, P, A, S, M, Sc
**FLASH** GN 15m (ISO200), hotshoe
**VIEWFINDER/MONITOR** Opt/2in LCD
**OTHER** SD, 3 Colour space, Pictbridge, USB 2.0
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 133 x 102 x 76mm/540g

6 Mega Pixels

*PROS* Simple, image quality, design & build, price
*CONS* Lacks some features such as PC socket

WDC SCORE 87%

***SUMMARY*** ***Controls are stripped back, but it is easy to use and fast at a good price***

TESTED Aug 2005

## £380 Estimated Street Price (£550 RRP) — Panasonic FZ30

**CCD** 8MP effective, 8.3MP total
**LENS** 35-420mm, f/2.8-3.7
**SHUTTER SPEED** 60 - 1/2000sec
**ISO** 80-400
**EXPOSURE MODES** Auto, P, A, S, M, plus 14 Sc
**FLASH** GN 7 (auto) hotshoe
**VIEWFINDER/MONITOR** EVF/2in LCD 230,000 pixels
**OTHER** SD, Pictbridge, USB 2.0, Mega OIS, RAW
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 141 x 86 x 138mm/740g

8 Mega Pixels

*PROS* Features, handling, EVF, good images possible
*CONS* Noise at high ISO, camera shake, RAW conversion

WDC SCORE 85%

***SUMMARY*** ***Good features and spec, however it suffers from noise at ISO 200***

TESTED Nov 2005

## £380 Estimated Street Price (£500 RRP) — Fujifilm S9500

**CCD** 9.2MP Total, 9MP effective
**LENS** 28-300mm f/2.8-4.9
**SHUTTER SPEED** 1/4 - 1/4000sec
**ISO** 80-1600
**EXPOSURE MODES** Auto, M, A, S, P + 5 Scene, Mov
**FLASH** Built-in/hotshoe
**VIEWFINDER/MONITOR** EVF /1.8in 235,000 pixel LCD
**OTHER** xD and CF I & II slots
**POWER** 4x AA
**DIMENSIONS/WEIGHT** 128 x 93 x 129mm/645g

9 Mega Pixels

*PROS* Low image noise, good features
*CONS* Some quirky handling, expensive

WDC SCORE 86%

***SUMMARY*** ***Minor quirks aside, a good camera producing images with little noise***

TESTED Dec 2005

## £399 Estimated Street Price (£399 RRP) — Ricoh GR Digital

**CCD** Total 8.3MP, Effective 8.13MP
**LENS** 28mm f/2.4
**SHUTTER SPEED** 180-1/2000sec
**ISO** Auto, 64-1600
**EXPOSURE MODES** Auto, M, A, P, + 2 Scene
**FLASH** Built-in, Auto plus 5 modes, hotshoe
**VIEWFINDER/MONITOR** Hotshoe-based optical/ 2in LCD
**OTHER** 320x240 Video, SD
**POWER** Li-ion/ 2xAAA cells
**DIMENSIONS/WEIGHT** 107 x 58 x 25mm/170g

8 Mega Pixels

*PROS* Great spec, excellent lens, user-adaptable control
*CONS* Lack of sharpness in 100% JPEGs, some noise

WDC SCORE 87%

***SUMMARY*** ***A unique camera, with a great lens, best results in RAW mode***

TESTED Feb 2006

YYePG Proudly Presents, Thx for Support

# THE WORD
## *On the street*
### Camera dealers' hot offers

PARK CAMERAS

**www.parkcameras.com**
**08450 580480**

"We have three great deals for WDC readers, on mention of Word on the Street. **1**. Canon Digital IXUS I Zoom, in Jet Black, only £149.99. **2**. Ricoh R4 Black + free SC60 case + free 256MB card at £249.99. **3.** HP Photosmart 422 Portable Photo Studio (includes M415 camera and 420 printer dock). Was £249.99, now only £119.99."

cameraWORLD

**www.cameraworld.com**
**020 7436 2553**

"Here's a great deal: the Konica Minolta Dimage Z20, with 5MPs, 8x optical zoom (36-290mm equiv), ultra fast response, 1cm macro, long battery life and more, in a stylish body for just £149.99. We've put together a bundle including the camera, a 512MB SD card, batteries and charger plus the Konica Minolta custom case for only £199.99."

buyacamera

**www.buyacamera.co.uk**
**01257 426054**

"Buyacamera.co.uk are offering readers of What Digital Camera the chance to buy the 1Gb Sandisk Extreme 3 card in either SecureDigital or Compact Flash versions for £49.99, saving £30 off RRP."

picstop.co.uk

**www.picstop.co.uk**
**0870 055 5552**

"As an authorised Kingston retailer, Picstop is able to offer very competitive pricing. This month we have significant price reductions on all Kingston memory cards. Kingston Elite 1GB Secure Digital cards are now only £26.90 and the 100x Speed Ultimate 1GB Compact Flash cards are now only £34.90."

---

**£400** Estimated Street Price (£400 RRP)

## Kodak Easyshare1

**CCD** 4.23MP total, 4.0MP effective
**LENS** 36-108mm f2.8-4.8
**SHUTTER SPEED** 1/2 - 1/448sec
**ISO** Auto, 80, 100, 200, 400
**EXPOSURE MODES** Auto, 16 scene modes
**FLASH** 0.6-3.2m (W) 0.6-2.3m (T)
**VIEWFINDER/MONITOR** None/ 3in LCD
**OTHER** SD/MMC, 256MB internal, 640 x 480 movie clips
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 103 x 63 x 26mm/225g

4 Mega Pixels

*PROS* Big LCD, touch screen, internal memory, WiFi
*CONS* Battery consumption, lack of manual control
***SUMMARY*** ***Innovative, great for sharing pictures, but pictures are only average***

WDC SCORE **82%** TESTED Dec 2005

---

**£440** Estimated Street Price (£650 RRP)

## Nikon 8400

**CCD** 8MP effective
**LENS** 24-85mm
**SHUTTER SPEED** 8 - 1/3000sec
**ISO** 50-400
**EXPOSURE MODES** P, A, S, M, Sc, ±2EV, Mov
**FLASH** Built-in/hotshoe
**VIEWFINDER/MONITOR** EVF /1.8in LCD
**OTHER** CF, swivel LCD, 2.3fps over five frames, RAW, TIFF, JPEG
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 113.6 x 82.5 x 75mm/400g

8 Mega Pixels

*PROS* 24mm lens, functional, build quality
*CONS* Some fringing & noise, overly complicated menus
***SUMMARY*** ***A marked improvement on some recent Nikon cameras, very nice***

WDC SCORE **89%** TESTED Jan 2005

---

**£440** Estimated Street Price (£550 RRP)

## Samsung Pro 815

**CCD** 8.0MP effective, 8.3MP total
**LENS** 28-420mm f/2.2-4.6
**SHUTTER SPEED** 15 - 1/4000sec
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Auto, P, A, S, M, 2 Custom, 11 Scene
**FLASH** 0.7-6.0m (W), 1.5-30m (T)
**VIEWFINDER/MONITOR** EVF 235,000pixels/3.5in 235,000pxls
**OTHER** CF I/II, Adobe RGB, sRGB, USB2, Pictbridge, 16:9 shooting
**POWER** Li-ion SLB-1974
**DIMENSIONS/WEIGHT** 135.5 x 87 x 78.6mm/870.5g

8 Mega Pixels

*PROS* LCD, versatile lens
*CONS* Noise levels, fringing, no optical image stabiliser
***SUMMARY*** ***Great lens and advanced features, capable of producing good pics***

WDC SCORE **85%** TESTED Special 05

---

**£450** Estimated Street Price (£600 RRP)

## KonicaMinolta Dynax 5D

**CCD** 6.3MP, 6.1MP effective
**LENS** Minolta A mount
**SHUTTER SPEED** 30 - 1/4000sec & Bulb
**ISO** 100-3200
**EXPOSURE MODES** Auto, P, A, S, M, Sc
**FLASH** GN 15m (ISO200), hotshoe
**VIEWFINDER/MONITOR** Optical, 2.5in LCD
**OTHER** CF 1/II, 3 Colour space, Pictbridge, USB2, AntiShake CCD
**POWER** Rechargeable Li-ion
**DIMENSIONS/WEIGHT** 130.5 x 92.5 x 66.5mm/590g

6 Mega Pixels

*PROS* Anti-shake, white balance, ISO range, size
*CONS* Issues with high-contrast scenes in scene modes
***SUMMARY*** ***A technically advanced but surprisingly simple well-designed camera***

WDC SCORE **89%** TESTED Oct 2005

---

**£480** Estimated Street Price (£550 RRP)

## Pentax *iST DL

**CCD** 6.31MP, 6.1MP effective
**LENS** Interchangeable
**SHUTTER SPEED** 30 - 1/4000sec, Bulb
**ISO** 200-3200
**EXPOSURE MODES** P,A,S,M, Auto, 7 PICT modes
**FLASH** Pop-up and TTL hotshoe
**VIEWFINDER/MONITOR** TTL Optical via Penta mirror/2.5in
**OTHER** SD storage, RAW, JPEG
**POWER** Four AA or 2 CRV-3
**DIMENSIONS/WEIGHT** 125 x 92.5 x 67mm/470g

6 Mega Pixels

*PROS* Simple to use, great results
*CONS* RAW processing software is limited
***SUMMARY*** ***Impressive results, positive handling and good build quality***

WDC SCORE **89%** TESTED Sept 2005

---

**£500** Estimated Street Price (£600 RRP)

## Olympus E-500

**CMOS** 8.89MP total, 8MP effective
**LENS** FourThirds mount
**SHUTTER SPEED** 60-1/4000sec & Bulb
**ISO** 100-400 boost up to 1600
**EXPOSURE MODES** P, A, S, M, 15 Scene modes
**FLASH** Pop-up GN13, hotshoe
**VIEWFINDER/MONITOR** Optical/ 2.5in LCD
**OTHER** CF I/II, xD, USB2.0, sRGB and Adobe RGB
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 129.5 x 94.5 x 66mm/435g

8 Mega Pixels

*PROS* Feature packed, price, image quality
*CONS* Fiddly button positions, no dedicated DOF button
***SUMMARY*** ***Something for everyone, packs a lot into a small body for a good price***

WDC SCORE **89%** TESTED Special 05

---

**£530** Estimated Street Price (£1100 RRP)

## Sigma SD10

**CCD** 3.4MP x 3 Foveon (10.2MP total)
**LENS** Sigma SA bayonet mount
**SHUTTER SPEED** 30 - 1/6000sec & Bulb
**ISO** 100, 200, 400, 800, 1600
**EXPOSURE MODES** P, A, S, M
**FLASH** No
**VIEWFINDER/MONITOR** Optical TTL/ 1.8in LCD
**OTHER** RAW recording only, CF
**POWER** 4xAA or 2xCR-V3
**DIMENSIONS/WEIGHT** 152 x 120 x 79mm/950g

3 Mega Pixels

*PROS* Image quality, price, lens range
*CONS* RAW only, software clunky, no PC socket
***SUMMARY*** ***If you can handle the manual processing, it does the job for a good price***

WDC SCORE **83%** TESTED Jan 2004

---

**£530** Estimated Street Price (£749 RRP)

## Canon 350D

**CMOS** 8.3MP, 8MP effective
**LENS** Canon EF/EF-S mount
**SHUTTER SPEED** 30 - 1/4000sec & Bulb
**ISO** 100-1600
**EXPOSURE MODES** P,A,S,M, A-DEP, Auto, 5 Scene
**FLASH** Hotshoe, GN 13m (ISO 100)
**VIEWFINDER/MONITOR** Optical, 1.8in 115,000pixel LCD
**OTHER** CF I/II, 9 custom functions, USB 2.0, RAW +JPEG
**POWER** Rechargable Li-ion
**DIMENSIONS/WEIGHT** 126.5 x 94.2 x 64mm/485g

8 Mega Pixels

*PROS* Features, fast, performance, image quality
*CONS* LCD, some button placements
***SUMMARY*** ***Well designed and fast, it produces great results, good for semi-pros***

WDC SCORE **90%** TESTED May 2005

---

**£550** Estimated Street Price (£700 RRP)

## Nikon 8800

**CCD** 8.3MP total/8.0 MP effective
**LENS** 35-350mm f2.8-f5 (10x zoom)
**SHUTTER SPEED** 8 - 1/3000sec & B
**ISO** Auto, 50, 100, 200, 400
**EXPOSURE MODES** Auto, P, A, S, M, Sc, Mov, ±2EV, Custom
**FLASH** Built in/Hotshoe
**VIEWFINDER/MONITOR** EVF, 1.8in Vari-Angle LCD
**OTHER** CF Type I/II, 2.3fps, Pictbridge
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 116 x 85 x 121 mm/680g

8 Mega Pixels

*PROS* Lens, compact, handling
*CONS* Image noise, limited sensitivity
***SUMMARY*** ***Eminently usable and worthy model with good results***

WDC SCORE **86%** TESTED Apr 2005

---

**£550** Estimated Street Price (£550 RRP)

## Leica D-LUX2

**CCD** 8.4MP
**LENS** 28-112mm f/2.8-4.9
**SHUTTER SPEED** 60-1/2000sec
**ISO** Auto, 80-400
**EXPOSURE MODES** M,A,S,P, 14 Sc, Mov
**FLASH** Auto plus 6 modes
**VIEWFINDER/MONITOR** None/ 2.5in LCD, 207,000 pixels
**OTHER** 30fps Mov, SD, JPEG, RAW, TIFF , Image Stabilisation
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 105.7x58.3x25.6 mm/220g

8 Mega Pixels

*PROS* Widescreen sensor, great handling and design
*CONS* Image noise, low light exposures
***SUMMARY*** ***A gem of a camera to use, but expensive and let down by some noise***

WDC SCORE **87%** TESTED Apr 2006

YYePG Proudly Presents, Thx for Support

## £560 Estimated Street Price (£700 RRP) — Sony R1

**CCD** 10.3MP effective
**LENS** Carl Zeiss T* 24-120mm
**SHUTTER SPEED** 30 - 1/2000sec
**ISO** 160-3200
**EXPOSURE MODES** Auto, P, A, S, M, Scene, Mov
**FLASH** Hotshoe/Pop-up/GN18.5m
**VIEWFINDER/MONITOR** EVF, 2.0in LCD
**OTHER** CF I/II, MS Pro, USB 2.0, sRGB, Adobe RGB, vivid RGB
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 139 x 156 x 97mm/929g

10 Mega Pixels

*PROS* Excellent images, build and design
*CONS* LCD and EVF hard to see, slow burst, macro

WDC SCORE **88%** TESTED Jan 2006

***SUMMARY*** ***Great value; the best bridge camera on the market today***

## £580 Estimated Street Price (£700 RRP) — Nikon D70 S

**CMOS** 6.1MP effective
**LENS** Nikon F mount/1.5x mag
**SHUTTER SPEED** 30 - 1/8000sec
**ISO** 200-1600
**EXPOSURE MODES** P,A,S,M + Auto, 6 Scene
**FLASH** Pop-up and TTL hotshoe
**VIEWFINDER/MONITOR** TTL Optical/ 2in LCD
**OTHER** Custom functions, depth of field preview
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 140 x 111 x 78mm/600g

6 Mega Pixels

*PROS* Speed, handling, image quality, remote control
*CONS* Occasionally weak yellow and blues, no PC socket

WDC SCORE **90%** TESTED July 2005

***SUMMARY*** ***Disappointing upgrade, but superb speed, features and images***

## £640 Estimated Street Price (£1150 RRP) — Konica Minolta Dynax 7D

**CCD** 6.1MP effective
**LENS** Minolta A-type bayonet
**SHUTTER SPEED** 30 - 1/4000 sec & Bulb
**ISO** 100-3200
**EXPOSURE MODES** P, A, S, M
**FLASH** PC socket/Hotshoe /Built-in
**VIEWFINDER/MONITOR** Optical TTL/ 2.5in LCD
**OTHER** CF storage, 3FPS, RAW, JPEG, USB 2.0
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 150 x 106 x 77.5mm/760g

6 Mega Pixels

*PROS* Fully featured, build, good images, Anti-shake
*CONS* Too many buttons, harsh noise reduction

WDC SCORE **88%** TESTED Feb 2005

***SUMMARY*** ***An excellent first DSLR with great build quality and good results***

## £790 Estimated Street Price (£1270 RRP) — Canon 20D

**CMOS** 8.2MP Effective/ 8.5MP Total
**LENS** Canon EOS EF, EF-S
**SHUTTER SPEED** 30 - 1/8000sec
**ISO** 100-3200
**EXPOSURE MODES** Auto, P, A, S, M, Scene
**FLASH** GN 12 @ISO 100
**VIEWFINDER/MONITOR** Optical/1.8in LCD
**OTHER** CF I/II
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 44 x 106 x 72 mm/770g

8 Mega Pixels

*PROS* Good image quality, good spec, versatile
*CONS* Depth of field button awkward, clunky software

WDC SCORE **91%** TESTED Dec 2004

***SUMMARY*** ***Simply the best DSLR for the price on the market at the time of testing***

## £850 Estimated Street Price (£900 RRP) — Olympus E-330

**CMOS** 7.5MP
**LENS** 4/3 mount
**SHUTTER SPEED** 60 to 1/4000 sec + B
**ISO** 100-1600
**EXPOSURE MODES** M,A,S,P, 20 Scene
**FLASH** Built in/ Hotshoe
**VIEWFINDER/MONITOR** Reflex/ 2.5" Flip-out LCD
**OTHER** CF I& II, xD JPEG, ORF, 3 fps, Live view LCD
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 140 x 87 x 72mm/550g

7 Mega Pixels

*PROS* Live Viewing, overall handling, anti-dust
*CONS* Image noise over ISO 400, no PC socket

WDC SCORE **86%** TESTED Apr 2006

***SUMMARY*** ***The pull-out live view LCD is the first of its kind and impressive***

## £900 Estimated Street Price (£1000 RRP) — Panasonic LC1

**CCD** 4.92MP effective
**LENS** 28-90mm
**SHUTTER SPEED** 1/8-1/4000 sec
**ISO** 100,200,400
**EXPOSURE MODES** P, A, S, M
**FLASH** GN 4m @auto/wide
**VIEWFINDER/MONITOR** EVF, 2.5in LCD
**OTHER** SD, RAW, USB 2.0, manual focus
**POWER** Li-ion
**DIMENSIONS/WEIGHT** 82 x 135 x 103mm/630g

5 Mega Pixels

*PROS* Handling, LCD, flash, image quality
*CONS* Limiting ISO, EVF

WDC SCORE **90%** TESTED June 2004

***SUMMARY*** ***Less bucks than the Leica Digilux 2 for essentially the same camera***

## £1000 Estimated Street Price (£1600 RRP) — Fujifilm S3 Pro

**CCD** 6.17 'S', 6.17 'R' MP, 12MP output
**LENS** Nikon F mount
**SHUTTER SPEED** 30 - 1/4000sec & Bulb
**ISO** 100-1600
**EXPOSURE MODES** P, A, S, M
**FLASH** PC socket, Hotshoe, Built-in
**VIEWFINDER/MONITOR** Optical/ 2in LCD
**OTHER** CF, xD, 2.5fps, RAW, JPEG, USB2.0, IEEE 1394
**POWER** 4x AA NiMH batteries, optional AC adaptor
**DIMENSIONS/WEIGHT** 47.8 x 135.3 x 78.5mm/ 815g

6 Mega Pixels

*PROS* Image quality, ease of use, sensor
*CONS* Software clunky, slow drive, small buffer

WDC SCORE **85%** TESTED Mar 2005

***SUMMARY*** ***It may be a slow operator but image quality is superb***

## £1200 Estimated Street Price (£1299 RRP) — Nikon D200

**CCD** 10.2MP effective
**LENS** Interchangeable Nikon AF
**SHUTTER SPEED** 30 - 1/8000sec
**ISO** 100-1600 + 1 stop boost
**EXPOSURE MODES** P, A, S, M
**FLASH** Built in/Hotshoe
**VIEWFINDER/MONITOR** Reflex/2.5in
**OTHER** CF I/II, Jpeg, Tiff, Nef, 5fps
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 147 x 113 x 74mm/830g

10 Mega Pixels

*PROS* Design, speed, handling, RAW files
*CONS* LCD brightness, JPEGS often need processing

WDC SCORE **90%** TESTED Feb 2006

***SUMMARY*** ***Very capable, offers lots of potential, geared to RAW rather than JPEG***

## £1230 Estimated Street Price (£1300 RRP) — Leica Digilux 2

**CCD** 4.92MP effective
**LENS** 28-90mm
**SHUTTER SPEED** 1/8 - 1/4000sec
**ISO** 100,200,300
**EXPOSURE MODES** P, A, S, M
**FLASH** GN 4m @Auto/wide
**VIEWFINDER/MONITOR** EVF/ 2.5in LCD
**OTHER** SD storage, RAW, USB 2.0, Manual focus
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 82 x 135 x 103mm/630g

5 Mega Pixels

*PROS* Excellent image quality, handling, design
*CONS* Expensive, low ISO range, EVF may be unpopular

WDC SCORE **89%** TESTED May 2004

***SUMMARY*** ***A great piece of kit, though I can't help feeling that it is overpriced***

## £1850 Estimated Street Price (£2500 RRP) — Canon Eos 5D

**CMOS** 13.3MP/12.8MP effective
**LENS** Interchangeable
**SHUTTER SPEED** 30-1/8000sec & B
**ISO** 100-1600
**EXPOSURE MODES** P, A, S, M
**FLASH** PC socket, hotshoe
**VIEWFINDER/MONITOR** Optical/ 2.5in LCD
**OTHER** CF I/II, M, USB 2.0, sRGB and Adobe colour space
**POWER** Lithium-ion
**DIMENSIONS/WEIGHT** 152 x 113 x 75mm/810g

13 Mega Pixels

*PROS* Well built, good features, speed of use, images
*CONS* Some fiddly controls, very faint edge fringing

WDC SCORE **91%** TESTED Dec 2005

***SUMMARY*** ***Superb camera producing big images, for semi-pros and enthusiasts***

## £2000 Estimated Street Price (£2000 RRP) — Epson RD1

**CCD** 6MP effective
**LENS** Interchangeable EM mount
**SHUTTER SPEED** 1 - 1/2000sec & B
**ISO** 200-1600
**EXPOSURE MODES** Manual, Aprture Priority AE
**FLASH** Hotshoe/ PC (X-sync)
**VIEWFINDER/MONITOR** Real size optical/ 2.0in LCD
**OTHER** SD, optical rangefinder, JPEG, RAW
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 88.5 x 142 x 39.5mm/590g

6 Mega Pixels

*PROS* Build, design, innovative features, RAW plug-in
*CONS* Vignetting, no PC connection

WDC SCORE **85%** TESTED Feb 2005

***SUMMARY*** ***Quirky and fun, the world's first digital rangefinder has some image issues***

## £2100 Estimated Street Price (£2500 RRP) — Nikon D2Hs

**CCD** 4MP effective JFET
**LENS** Nikon fit
**SHUTTER SPEED** 30 - 1/8000sec & B
**ISO** 200-1600
**EXPOSURE MODES** P, A, S, M, ±5EV
**FLASH** Hotshoe
**VIEWFINDER/MONITOR** Real size optical/ 2.5in LCD
**OTHER** CF, 9fps, RAW, TIFF, JPEG, USB 2.0
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 158 x 150 x 86 mm/1150g

4 Mega Pixels

*PROS* Handling, image quality, system support, speed
*CONS* 4MP may not be enough

WDC SCORE **91%** TESTED Oct 2005

***SUMMARY*** ***Fast, fun and furious, however it only has a 4MP CCD***

## £2500 Estimated Street Price (£3050 RRP) — Canon Eos 1D MkII N

**CMOS** APS-C 28.7x19.1mm CMOS
**LENS** Canon EF
**SHUTTER SPEED** 30 - 1/8000sec & B
**ISO** 100-1600 boost of 50 and 3200
**EXPOSURE MODES** P, A, S, M, Custom, Picture Style
**FLASH** Hotshoe/PC Sync
**VIEWFINDER/MONITOR** Pentaprism 100% view/2.5in LCD
**OTHER** CF/SD, RAW, JPEG, 8.5fps, 48 frames JPEG, 20 RAW
**POWER** Li-Ion
**DIMENSIONS/WEIGHT** 156 x 158 x 86 mm/1150g

8 Mega Pixels

*PROS* Build, image quality, fast, good buffer rate
*CONS* Expensive compared to competition

WDC SCORE **91%** TESTED Mar 2006

***SUMMARY*** ***Good camera, but update to original, so not really significant***

## £2800 Estimated Street Price (£3500 RRP) — Nikon D2X

**CMOS** 12MP effective
**LENS MOUNT** Interchangeable Nikon AF
**SHUTTER SPEED** 30 - 1/8000sec & Bulb
**ISO** 100-800
**EXPOSURE MODES** P, A, S, M, ±5EV
**FLASH** Hotshoe/ PC (X-sync)
**VIEWFINDER/MONITOR** Optical/ 2.5in LCD
**OTHER** CFI/II, JPEG, RAW, TIFF, 5fps over 21 in Jpeg mode
**POWER** Li-ion EN-EL4
**DIMENSIONS/WEIGHT** 157 x 149.5 x 85.5mm/1070g

12 Mega Pixels

*PROS* Great design, image quality, speed, features
*CONS* Single card slot, some faint fringing, software

WDC SCORE **95%** TESTED May 2005

***SUMMARY*** ***Superb handling and packed with features, little to criticise***

## £4600 Estimated Street Price (£6000 RRP) — Canon Eos 1DS MkII

**CMOS** 16.7MP effective Full frame
**LENS MOUNT** Interchangeable EF mount
**SHUTTER SPEED** 30 - 1/8000sec & Bulb
**ISO** 100-1600
**EXPOSURE MODES** P, A, S, M, ±3EV
**FLASH** Hotshoe/ PC (X-sync)
**VIEWFINDER/MONITOR** Real size optical/ 2.0in LCD
**OTHER** SD, CFI&II, JPEG, RAW, JPEG+RAW
**POWER** Ni-MH pack
**DIMENSIONS/WEIGHT** 156 x 158 x 80mm/1215g

16 Mega Pixels

*PROS* Superb image quality, camera body design
*CONS* None really, but a larger LCD would be nice

WDC SCORE **96%** TESTED Apr 2005

***SUMMARY*** ***Quite simply, as good as it gets. Canon has another scorcher***

YYePG Proudly Presents, Thx for Support

# The TOP lenses

Whether wide or tele, here is our pick of lenses

## Wideangle zooms

### £569 Street Price — Sigma 12-24mm

**Name:** Sigma EX 12-24mm f/4.5-5.6 DG HSM
**Max Aperture:** 4.5-5.6
**Min Aperture:** 22
**Mount:** Sigma, KM, Nikon, Pentax, Canon
**Dimensions/Weight:** 87x102.5mm/600g
**Other:** Digital full frame, rear filter
***SUMMARY:*** *A remarkable lens for its quality and focal length*

WDC SCORE 90% Jun SUPP 2005

### £289 Street Price — Canon 20-35mm

**Name:** Canon EF 20-35mm f/3.5-4.5 USM
**Max Aperture:** 3.5-4.5
**Min Aperture:** 32
**Mount:** Canon
**Dimensions/Weight** 83.5X68.9mm/340g
**Other:** USM, non digital
***SUMMARY:*** *As an analogue lens this is a remarkable performer*

WDC SCORE 89% Jun SUPP 2005

### D70 Kit Lens — Nikon 18-70mm

**Name:** Nikon AF-S 18-70mm f/3.5-4.5 G DX ED
**Max Aperture:** 3.5-4.5
**Min Aperture:** 32
**Mount:** Nikon
**Dimensions/Weight** 73x75mm/420g
**Other:** DX design for Nikon DX sensors
***SUMMARY:*** *Well made digitally dedicated lens with great performance*

WDC SCORE 87% Jun SUPP 2005

### £329 Street Price — Tamron 17-35mm

**Name:** Tamron SP 1F Di(IF) 17-35 f/2.8-4
**Max Aperture** 2.8-4
**Min Aperture** 22
**Mount** Canon, KM, Nikon, Pentax
**Dimensions/Weight** 83.2x86.5mm/430g
**Other:** APS Digital design, 77mm filter
***SUMMARY:*** *Very good, solid performer and well made too*

WDC SCORE 87% Jun SUPP 2005

### £449 Street Price — Konica Minolta 17-35mm

**Name:** Konica Minolta AF 17-35mm f/2.8-4 D
**Max Aperture** 2.8-4
**Min Aperture** 22-32
**Mount** KM AF
**Dimensions/Weight** 83 x 88.5mm/430g
**Other:** Non digital, 77mm filter
***SUMMARY:*** *A non-digital lens that performs better from the middle of the focal range*

WDC SCORE 84% Jun SUPP 2005

### £199 Street Price — Pentax 18-55mm

**Name:** Pentax DA 18-55MM f/3.5-5.6 AL
**Max Aperture** 3.5-5.6
**Min Aperture** 22
**Mount Pentax** KAF
**Dimensions/Weight** 83.5x69mm/420g
**Other:** Non digital,52mm filter
***SUMMARY:*** *A capable lens with a good price, but some vignetting and edge sharpness problems*

WDC SCORE 84% Jun SUPP 2005

### £100 Street Price — Sigma 18-50mm

**Name:** Sigma 18-50mm f3.5-5.6 DC
**Max Aperture** 3.5-5.6
**Min Aperture** 22
**Mount** Sigma, Nikon, Pentax, Canon, Olympus
**Dimensions/Weight** 74.1x84.1x88.5mm/430g
**Other:** APS Digital design,58mm filter
***SUMMARY:*** *A budget digital lens with average performance*

WDC SCORE 81% Jun SUPP 2005

## Standard zooms

### £449 Street Price — Olympus 14-54mm

**Name:** Olympus Digital 14-54mm f2.8-3.5
**Max Aperture** 2.8-3.5
**Min Aperture** 22
**Mount** Olympus 4/3
**Dimensions/Weight** 73.5x87.5mm/435g
**Other:** Digital design, 58mm filter
***SUMMARY:*** *Specifically designed for the 4/3 sensor, the lens ticks all the right boxes and is well made*

WDC SCORE 92% Jun SUPP 2005

### £339 Street Price — Canon 28-135mm

**Name:** Canon EF 28-135mm f/3.5-5.6 IS USM
**Max Aperture** 3.5-5.6
**Min Aperture** 32
**Mount** Canon
**Dimensions/Weight** 78.4x96.8mm/540g
**Other:** Non digital, Image Stabilised72mm filter
***SUMMARY:*** *Tough and durable, this non-digital lens doesn't disappoint*

WDC SCORE 90% Jun SUPP 2005

### £369 Street Price — KonicaMinolta 28-75mm

**Name:** Konica Minolta 28-75mm f/2.8 D
**Max Aperture** 2.8
**Min Aperture** 32
**Mount** KM AF
**Dimensions/Weight** 73x94mm/510g
**Other:** Non digital,67mm filter
***SUMMARY:*** *A non-digital lens but still a good optic with a constant f/2.8 maximum aperture*

WDC SCORE 88% Jun SUPP 2005

### £269 Street Price — Tamron 28-75mm

**Name:** Tamron SP 28-75mm XR Di LD (IF) f/2.8 macro
**Max Aperture** 2.8
**Min Aperture** 22
**Mount** Nikon, Canon, KM, Pentax
**Dimensions/Weight** 73x92mm/510g
**Other:** Non digital,73mm filter
***SUMMARY:*** *Digitally integrated macro lens and standard zoom with consistent results*

WDC SCORE 88% Jun SUPP 2005

### £339 Street Price — Sigma 24-60mm

**Name:** Sigma EX 24-60mm f/2.8 DG Max Aperture 2.8
**Min Aperture** 22
**Mount** Nikon, Canon, Pentax, KM, Sigma
**Dimensions/Weight** 83.6x87.2mm/550g
**Other:** Full frame digital,77mm filter
***SUMMARY:*** *Designed for full-frame sensors, but can be used with smaller APS. Good constant max aperture and reasonable images*

WDC SCORE 86% Jun SUPP 2005

### £300 Street Price — Nikon 24-85mm

**Name:** Nikon AF-S 24-85mm f/3.5-4.5 G ED –IF
**Max Aperture** 3.5-4.5
**Min Aperture** 32
**Mount** Nikon
**Dimensions/Weight** 73x71mm/400g
**Other:** Non digital,67mm filter
***SUMMARY:*** *For a non-digital lens it performs reasonably well but lacks definition in low-contrast conditions*

WDC SCORE 84% Jun SUPP 2005

### £159 Street Price — Pentax 28-80mm

**Name:** Pentax FAJ 28-80MM f/3.5-5.6 AL
**Max Aperture** 3.5-5.6
**Min Aperture** 38
**Mount** Pentax KAF
**Dimensions/Weight** 63x67mm/180g
**Other:** Non digital,58mm filter
***SUMMARY:*** *Pentax claims the lens works equally well with film or digital, and for the size and price is a very good performer*

WDC SCORE 84% Jun SUPP 2005

## Telephoto zooms

### £1549 Street Price — Nikon 80-200mm

**Name:** Nikon AF-S 80-200mm f/2.8
**Max Aperture** 2.8
**Min Aperture** 32
**Mount** Nikon
**Dimensions/Weight** 88x207mm/1580g
**Other:** Non digital,77mm filter
***SUMMARY:*** *A top of the range lens bristling with quality. It's not cheap but if you want the best it's worth the price*

WDC SCORE 93% Jun SUPP 2005

### £799 Street Price — Sigma 70-200mm

**Name:** Sigma APO 70-200mm f/2.8 EX HSM
**Max Aperture:** 2.8
**Min Aperture:** 32
**Mount** Sigma, Canon, Nikon, Pentax, KM
**Dimensions/Weight** 86.2x184mm/1270g
**Other:** Non digital, 77mm filter
***SUMMARY:*** *Although it's not specifically digital, the performance is outstanding. If you can stretch to the price, an absolute must have*

WDC SCORE 92% Jun SUPP 2005

### £699 Street Price — Olympus 50-200mm

**Name:** Olympus Digital ED 50-200 f/2.8-3.5
**Max Aperture** 2.8-3.5
**Min Aperture** 22
**Mount** Olympus 4/3
**Dimensions/Weight** 87x157mm/1070g
**Other:** Digital optimised,67mm filter
***SUMMARY:*** *A very good example of digital integration and improvement*

WDC SCORE 91% Jun SUPP 2005

### £139 Street Price — Minolta 75-300mm

**Name:** Minolta AF 75-300mm f/4.5-5.6 AP D
**Max Aperture** 4.5-5.6
**Min Aperture** 38
**Mount** KM AF
**Dimensions/Weight** 71x122mm/460g
**Other:** Non digital, 55mm filter
***SUMMARY:*** *An analogue lens but not a bad performer. Some problems in shadow areas and fringing though*

WDC SCORE 83% Jun SUPP 2005

### £199 Street Price — Pentax 75-300mm

**Name:** Pentax FA-J 75-300mm f/4.5-5.6 AL
**Max Aperture:** 4.5-5.6
**Min Aperture:** 38
**Mount:** Pentax KAF
**Dimensions/Weight** 69x116mm/385g
**Other:** Non digital, 58mm filter
***SUMMARY:*** *A prime example of why digital lenses should be used; very poor performance on digital cameras*

WDC SCORE 80% Jun SUPP 2005

### £129 Street Price — Canon 80-200mm

**Name:** Canon EF 80-200mm f/4.5-5.6 II
**Max Aperture** 4.5-5.6
**Min Aperture** 29
**Mount** Canon
**Dimensions/Weight** 69x78.5mm/250g
**Other:** Non digital, 77mm filter
***SUMMARY:*** *Canon's budget zoom is slow, with fringing frequently occurring*

WDC SCORE 79% Jun SUPP 2005

### £179 Street Price — Nikon 70-300mm

**Name:** Nikon AF 70-300mm f4.5-5.6 G
**Max Aperture** 4.5-5.6
**Min Aperture** 38
**Mount** Nikon
**Dimensions/Weight** 74x116.5mm/425g
**Other:** Non digital, 62mm filter
***SUMMARY:*** *Nikon's budget lens lets the side down. Slow, noisy and average images*

WDC SCORE 74% Jun SUPP 2005

Proudly Presents, Thx for Support

# The TOP flash & scanners

Our pick of flashguns and film & flatbed scanners

## Flashguns
illumination

**£295** Street Price — **Nikon Speedlight SB-800**
GN 56m@105mm@ISO 100
**Features:** Bounce/180degree twist/24-105mm coverage/Wireless/FP mode
**Compatibility:** Nikon
*SUMMARY* ***Small but powerful flash***
WDC SCORE 93% DEC 2005

**£300** Street Price — **Metz 54 MZ-4i**
GN 54m@105mm@ISO 100
**Features:** Bounce/180degree twist/24-105mm coverage/multiflash/FP mode
**Compatibility:** Olympus/Canon/KonMin/Nikon/Pentax
*SUMMARY* ***Big, powerful and sophisticated***
WDC SCORE 92% DEC 2005

**£350** Street Price — **Canon Speedlite 580EX**
GN 58m@105mm@ISO 100
**Features:** Bounce/180degree twist/24-105mm coverage/Wireless/FP mode
**Compatibility:** Canon
*SUMMARY* ***105mm coverage GN58***
WDC SCORE 91% DEC 2005

**£230** Street Price — **Nikon Speedlight SB-600**
GN 40m@85mm@ISO 100
**Features:** Bounce/180degree twist/28-85mm coverage/Wireless CLS/FP
**Compatibility:** Nikon
*SUMMARY* ***Affordable and adaptable unit***
WDC SCORE 90% NOV 2005

**£200** Street Price — **Canon Speedlite 430EX**
GN 43m@105mm@ISO 100
**Features:** Bounce/180degree twist/24-105mm coverage/wireless EX/FP mode
**Compatibility:** Canon
*SUMMARY* ***Good features & performance***
WDC SCORE 90% NOV 2005

**£330** Street Price — **Konica Minolta P-Flash 5600 HS (D)**
GN 56m@85mm@ISO 100
**Features:** Bounce/180degree twist/24-85mm coverage/wireless/ FP mode
**Compatibility:** Sigma/Canon/KonMin/Nikon/Pentax
*SUMMARY* ***Powerful, flexible and capable***
WDC SCORE 89% DEC 2005

**£200** Street Price — **Sigma EF-500 DG Super**
GN 50m@105mm@ISO 100
**Features:** Bounce/180degree twist/28-105mm coverage/ wireless
**Compatibility:** Sigma/Canon/KonMin/Nikon
*SUMMARY* ***Superlative budget choice***
WDC SCORE 89% DEC 2005

**£350** Street Price — **Olympus FL50**
GN 50m@85mm@ISO 100
**Features:** Bounce/180degree twist/24-85mm coverage/FP mode
**Compatibility:** Olympus
*SUMMARY* ***Bit pricey but well worth it***
WDC SCORE 87% DEC 2005

**£170** Street Price — **Olympus FL-36**
GN 36m@85mm@ISO 100
**Features:** Bounce/180degree twist/24-85mm coverage/FP mode
**Compatibility:** Olympus 4/3
*SUMMARY* ***Great entrée to off-camera flash work***
WDC SCORE 86% NOV 2005

**£120** Street Price — **Sigma EF-500 DG ST**
GN 50m@105mm@ISO 100
**Features:** Bounce/180degree twist/28-105mm coverage
**Compatibility:** Sigma/Canon/KonMin/Nikon/Pentax
*SUMMARY* ***Keen price, lacks some features***
WDC SCORE 86% NOV 2005

## Flatbed
scanner

**£179** Street Price — **Canon 8400F**
**RESOLUTION** 3200x6400ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Multi-photo scan, USB 2.0, FARE scratch removal
*SUMMARY* ***Very fast and producing good-quality scans***
WDC SCORE 91% APRIL 2005

**£350** Street Price — **Epson 4490**
**RESOLUTION** ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Holders for film up to 5x4, Silver Fast AE, PS Elements 2, USB 2, Digital ICE
*SUMMARY* ***Good results and verstatility, but not the cheapest on the block***
WDC SCORE 90% MAY 2005

**£199** Street Price — **Epson 4990**
**RESOLUTION** 4800x9400 ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Holders for 12 35mm strips, 4x mounted slides, 1x medium format, USB 2, Digital ICE
*SUMMARY* ***High standard of construction and excellent software***
WDC SCORE 91% MAR 2006

**£350** Street Price — **Epson 4870**
**TYPE & RESOLUTION** 4800x9600ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Full-width TPU, 24 film frames, 8 slides capacity, roll film, 5x4in, Digital ICE
*SUMMARY* ***Highest spec consumer scanner yet***
WDC SCORE 90% AUG 2004

**£139** Street Price — **Canon LIDE 80**
**TYPE & RESOLUTION** 2400x4800ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Single-frame 35mm film scanning, CIS, USB2.0
*SUMMARY* ***Ultra-slim, fast and great results – WDC's Scanner of the Year 2003***
WDC SCORE 90% AWARDS ISSUE 2003

**£129** Street Price — **Canon LIDE 500F**
**TYPE & RESOLUTION** A4 Flatbed, 1200x4800ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** 1x35mm film scanning, FARE level 3, USB 2.0
*SUMMARY* ***This is another slim and space saving LiDE winner from Canon***
WDC SCORE 90% MAR 2006

**£129** Street Price — **Epson 2580**
**TYPE & RESOLUTION** Flatbed, 2400x4800ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** USB 2.0, colour restoration & dust removal
*SUMMARY* ***Well-specified model producing great results for a low price***
WDC SCORE 89% JAN 2005

**£129** Street Price — **Canon 8000F**
**TYPE & RESOLUTION** 2400x4600ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Scans 12 35mm film frames, FARE dust and scratch removal, USB 2.0
*SUMMARY* ***Good all-rounder, no roll film support***
WDC SCORE 88% MAR 2003

**£200** Street Price — **HP 5530**
**TYPE & RESOLUTION** 2400x4800ppi
**TRANSPARENCY UNIT** Yes
**FEATURES** Automatic postcard print stack and feeder
*SUMMARY* ***6x4in print feeder – unique to HP***
WDC SCORE 87% AUGUST 2004

**£339** Street Price — **Canon 9950F**
**TYPE & RESOLUTION** Flatbed A4
**TRANSPARENCY UNIT** Yes
**FEATURES** Holders up to 5x4, PS Elements 2, USB 2, FARE
*SUMMARY* ***Good image and build quality, but 6400 is less effective than Digital ICE***
WDC SCORE 87% MAY 2005

## Film
scanner

**£600** Street Price — **Minolta 5400**
**FILM SIZE & RESOLUTION** 35mm/5400ppi
**FEATURES** USB 2.0, Digital ICE4 dust and scratch removal included
*SUMMARY* ***Incredibly high resolution***
WDC SCORE 91% SEPT 2004

**£300** Street Price — **Minolta Scan Dual IV**
**TYPE** 35mm/APS Film scanner
**FEATURES** USB 2.0, 3200PPI resolution
*SUMMARY* ***Price, speed and quality make it good for a medium number of scans***
WDC SCORE 90% AUG 2005

**£549** Street Price — **Epson F-3200**
**FILM SIZE & RESOLUTION** Up to 5x4, 3200dpi/6400dpi with micro step
**FEATURES** USB 2, FireWire, 6X4 print scanning function
*SUMMARY* ***Great for multi format***
WDC SCORE 90% JUNE 2005

**£800** Street Price — **Microtek 4000TF**
**RESOLUTION** 4000ppi
**FILM SIZE** 35mm
**FEATURES** USB, Firewire
*SUMMARY* ***SilverFast Ai Pro 6 software bundled***
WDC SCORE 90% OCT 2004

**£2500** Street Price — **Nikon LS9000**
**FILM SIZE & RESOLUTION** 35mm and 6 x 9cm roll film/4000ppi
**FEATURES** Digital ICE4/ROC, Firewire
*SUMMARY* ***Multi-format film scanner***
WDC SCORE 89% AUGUST 2004

**£2276** Street Price — **Minolta Pro**
**FILM SIZE & RESOLUTION** 35mm, 120/220 roll film up to 6 x 9cm/4800ppi
**FEATURES** Ultra SCSI, Firewire, Digital ICE3 dust and scratch removal
*SUMMARY* ***Capable of scanning roll film***
WDC SCORE 88% JULY 2004

**£520** Street Price — **Nikon Coolscan LS50**
**FILM SIZE & RESOLUTION** 35mm / 4000ppi
**FEATURES** USB 2.0, Digital ICE4 dust and scratch removal
*SUMMARY* ***High resolution, fast and easy to use. Also known as the Coolscan V***
WDC SCORE 76% APRIL 2003

**£1099** Street Price — **Nikon LS5000**
**FILM SIZE & RESOLUTION** 35mm/4000ppi
**FEATURES** 48-bit, 16-bit a/d, Digital ICE4 dust and scratch removal, USB 2.0
*SUMMARY* ***Very fast – 20 seconds per frame***

**£400** Street Price — **Microtek 3600**
**FILM SIZE & RESOLUTION** 35mm/1800ppi
**FEATURES** USB, 36-bit
*SUMMARY* ***Simple manual feed film scanner for the budget-conscious***

**£449** Street Price — **Canon FS4000US**
**FILM SIZE & RESOLUTION** 35mm, APS/4000dpi
**FEATURES** APS adapter included, FARE dust and scratch removal, SCSI and USB, accepts strips and slide mounts
*SUMMARY* ***Competitively priced. Includes APS option***

TVFG Proudly Presents, Thx for Support

# The TOP printers

Buying a printer?
These are our picks

## 6"x4" printer

**£100 Street Price — Epson PictureMate 100**

**TYPE & RESOLUTION** 6x4in Inkjet
**FEATURES** USB 2.0, 1.5in LCD, optional Bluetooth and battery pack, CF, SD, xD, MS Pro, MS
***SUMMARY*** *Good print quality, convenient, expensive for lots of pics but great for a few prints*
WDC SCORE **89%** DEC 2005

**£179 Street Price — Epson PictureMate 500**

**TYPE & RESOLUTION** 6x4in Inkjet/320 x 240dpi
**FEATURES** USB 2.0, optional Bluetooth and battery pack, CF, SD, xD, MS Pro, SM
***SUMMARY*** *One of the best, easiest and fast units. Versatile unit producing pleasing results*
WDC SCORE **88%** SEP 2005

**£150 Street Price — Epson PictureMate**

**TYPE & RESOLUTION** 6x4in Inkjet/Up to 5760 x 1440dpi
**FEATURES** Pictbridge compatible, direct printing from memory cards and Bluetooth option with adaptor
***SUMMARY*** *Good colours & sharpness, this compact option is cheap to run, but slow*
WDC SCORE **85%** MAR 2005

**£130 Street Price — Kodak PrinterDock 3**

**TYPE & RESOLUTION** 6x4in dye sub
**FEATURES** USB 2.0, Bluetooth, IRDA, Kodak camera direct printing and recharging
***SUMMARY*** *Easy to use and quick to print with mobile phone compatibility*
WDC SCORE **86%** MAR 2006

**£150 Street Price — Samsung SPP2040**

**TYPE & RESOLUTION** 6x4in dye-sub
**FEATURES** USB 2.0, CF I/II, SM, SD, MMC, MMS, xD, 2in LCD monitor
***SUMMARY*** *Attractive and easy to use though a bit expensive. Good for the average home user*
WDC SCORE **84%** DEC 2005

**£150 Street Price — Canon CP330**

**TYPE & RESOLUTION** 6x4in dye-sub/300dpi
**FEATURES** Lithium-ion battery, Pictbridge compatible, range of paper sizes, including sticker prints
***SUMMARY*** *Produces good-quality prints at a reasonable price. Portable, thanks to battery*
WDC SCORE **83%** MAR 2005

**£170 Street Price — Canon DS700**

**TYPE & RESOLUTION** 6 x 4 inch Inkjet/ up to 4800 x 1200dpi
**FEATURES** Card slots, Pictbridge compatible, includes infrared remote and uses a TV as a display monitor
***SUMMARY*** *Low-profile device that is easy to use with a TV. Print quality is on the warm side*
WDC SCORE **82%** MAR 2005

**£90 Street Price — Lexmark P315**

**TYPE & RESOLUTION** 4800x1200dpi
**FEATURES** Pictbridge, card slots for all current media cards, Jpeg only
***SUMMARY*** *Not the fastest or best, but simple, inexpensive and serviceable*
WDC SCORE **83%** AUG 2005

## A4 Size printer

**£200 Street Price — Canon iP6000D**

**TYPE & RESOLUTION** A4 Inkjet/1200 x 4800 dpi
**FEATURES** Card slots, Pictbridge-compatible, dual paper trays, CDR/DVD printing, infrared wireless port
***SUMMARY*** *Refined and versatile unit producing good quality prints*
WDC SCORE **90%** FEB 2005

**£400 Street Price — Kodak Pro 1400**

**TYPE & RESOLUTION** Thermal dye sub, 301dpi
**FEATURES** USB 2.0, 8x12, 8x10, A4
***SUMMARY*** *Expensive prints. Easy to use, producing good results with high protection and print life*
WDC SCORE **89%** NOV 2005

**£159 Street Price — Canon iP5200**

**TYPE & RESOLUTION** Inkjet, 9600 x 2400dpi
**FEATURES** Wireless option, five inks, PictBridge
***SUMMARY*** *Big, purposeful, very fast and very refined*
WDC SCORE **88%** FEB 2006

**£300 Street Price — Epson R800**

**TYPE & RESOLUTION** A4 Inkjet/Up to 5760x1440dpi
**FEATURES** 8 dye-based inks, eight tanks Extended gamut pigment photo inks
***SUMMARY*** *Pleasing print quality and solid build, although it isn't Pictbridge compatible*
WDC SCORE **88%** MAR SUPP 2005

**£330 Street Price — Canon iP8500**

**TYPE & RESOLUTION** A4 Inkjet/4800 x 2400dpi
**FEATURES** Pictbridge support, dual paper trays, integral duplex unit, CDR/DVD printing, USB 2.0
***SUMMARY*** *A fast device with excellent colour range and sharpness, however it isn't cheap*
WDC SCORE **87%** MAR SUPP 2005

**£100 Street Price — Canon iP4200**

**TYPE & RESOLUTION** A4 Inkjet/ 9600x400dpi
**FEATURES** Five inks, Pictbridge compatible, CD/DVD printing
***SUMMARY*** *A good choice if printing from cards isn't required*
WDC SCORE **88%** FEB 2006

**£100 Street Price — Lexmark P915**

**TYPE & RESOLUTION** A4 Inkjet/ 1200 x 4800dpi
**FEATURES** Long lasting Evercolor ink cartridge, Pictbridge compatible, Memory card slots
***SUMMARY*** *Great value, good fade-resistant photo prints, though could be faster*
WDC SCORE **85%** FEB 2005

**£100 Street Price — Epson R240**

**TYPE & RESOLUTION** A4 Inkjet/ 5760x1440dpi
**FEATURES** Four inks, PictBridge, built-in LCD, memory card slots
***SUMMARY*** *Another neat package from Epson at an attractive price*
WDC SCORE **87%** FEB 2006

**£170 Street Price — HP 8150**

**TYPE & RESOLUTION** A4 Inkjet/1200 x 4800dpi
**FEATURES** Memory card slots, Pictbridge compatible, optional Bluetooth and 10 x 15cm double sided prints
***SUMMARY*** *Range of features, however borderless printing is unsatisfactory*
WDC SCORE **84%** FEB 2005

**£250 Street Price — HP 8450**

**TYPE & RESOLUTION** A4 inkjet/4800 x 1200dpi
**FEATURES** Pictbridge compatible, Memory card slots, double- sided photo print adaptor
***SUMMARY*** *Relatively good value and easy to use, however it is relatively slow and large*
WDC SCORE **84%** MAR SUPP 2005

## A3 Size printer

**£500 Street Price — Epson R2400**

**TYPE & RESOLUTION** A3+ Inkjet, 5760x1400 dpi
**FEATURES** USB 2.0, Firewire, borderless printing possible, roll printing
***SUMMARY*** *Excellent print quality, good performance and attractive design*
WDC SCORE **90%** OCT 2005

**£400 Street Price — Epson R1800**

**TYPE & RESOLUTION** A3+ Inkjet 5760x1440 dpi
**FEATURES** Epson Ultra Chrome Hi-Gloss inks, PictBridge
***SUMMARY*** *Good performance at reasonable price, neutral gloss prints, matt prints dark*
WDC SCORE **89%** OCT 2005

**£330 Street Price — HP Photosmart 8750**

**TYPE & RESOLUTION** Inkjet, 4800x1200dpi
**FEATURES** 9 HP Vivera inks inc HP 344 Tri-Colour, four card slots, USB 2.0, PictBridge
***SUMMARY*** *Operation is quiet and the price was good, although matt prints are too light*
WDC SCORE **88%** OCT 2005

**£550 Street Price — Canon i9950**

**TYPE & RESOLUTION** A3+ Inkjet/ 4800x2400dpi
**FEATURES** 8 Chroma Plus inks,eight tanks, USB 2.0, Firewire (Mac only), PictBridge
***SUMMARY*** *Very fast with good detail*
WDC SCORE **87%** OCT 2005

**£350 Street Price — Epson 1290S**

**TYPE & RESOLUTION** A3+ Inkjet/ 2880 x 720dpi
**FEATURES** Epson Quick Dry 6 colour inks, panoramic photo formats
***SUMMARY*** *Good tonal range; prints can look a little soft thanks to the low resolution*
WDC SCORE **79%** OCT 2003

## Multi Function
all-in-one printer,scanner &copier

**£159 Street Price — Epson CX6400**

**PRINTER** A4 Inkjet/ 5760dpi optimised
**SCANNER/OTHER** 1200x2400/copier
**INKS** Epson Durabrite pigment inks
***SUMMARY*** *A no-frills unit offering good value and good all round performance*
WDC SCORE **81%** SEPT 2004

**£299 Street Price — Canon MP730**

**PRINTER** A4 Inkjet/4800x1200dpi
**SCANNER/OTHER** 1200x2400ppi/copier/fax
**INKS** 3 colours and black
***SUMMARY*** *Impressive scanning but prints are disappointing. Well specified and good value, though*
WDC SCORE **80%** SEPT 2004

**£149 Street Price — Canon MP370**

**PRINTER** A4 Inkjet 4800x1200dpi
**SCANNER/OTHER** 1200x2400ppi/copier/ PictBridge
**INKS** 3 colours and black
***SUMMARY*** *A great looker and competitively priced but falls short in use. It has got PictBridge, though*
WDC SCORE **78%** SEPT 2004

**£200 Street Price — Canon MP390**

**PRINTER** A4 Inkjet/ 4800x1200dpi
**SCANNER/OTHER** 1200x2400ppi CIS A4 scanner, copier,fax
**INKS** 4 inks (black pigment, colour dyes) 2 tanks
***SUMMARY*** *With card and camera support this offers photo features along with the office functions*
WDC SCORE **77%** JUNE 2004

**£130 Street Price — HP PSC1350**

**PRINTER** A4 Inkjet/4800x1200dpi
**SCANNER/OTHER** 600x2400ppi/copier
**INKS** 3 colour plus black, optional photo cartidge
***SUMMARY*** *It's a bit loud for the home environment but the scanner is quick with good density*
WDC SCORE **73%** SEPT 2004

SUBSCRIBE NOW AND SAVE OVER 30%

Get your favourite digital camera magazine delivered directly to your door every month

Call now on 0845 676 7778

Please see page 62

YYePC Proudly Presents - Thx for Support

# The TOP portable drives & software

Software to improve your images and the best storage devices

## Portable Hard drives
### Storage devices

**£350 Street Price — Epson P400**

**DESCRIPTION** 40GB Multimedia Viewer
**PLATFORMS** Windows/Mac
**FEATURES** 3.8in LCD, MP3, JPEG, RAW, TIFF, AAC, MPEG 4
*SUMMARY* ***The great screen and compatibility with Epson printers makes this a serious bit of kit***

WDC SCORE 92% FEB 2006

**£179 Street Price — Addonics MFR CD Burner**

**DESCRIPTION** CD burner/ DVDS player
**PLATFORMS** Windows
**FEATURES** Portable USB 2.0 CD burner, DVD playback
*SUMMARY* ***If only it had 5.1 Dolby sound this little portable player could replace your domestic DVD player***

WDC SCORE 92% AUG 2004

**£100 Street Price — Kodak Easyshare Picture Viewer**

**FEATURES** Portable image viewer
**FEATURES** 256MB hard drive, 2.5in LCD,
*SUMMARY* ***Simple to use, good price although the hard drive has a limited capactiy***

WDC SCORE 91% OCT 2005

**£299 Street Price — Apacer Disc Steno CP-200**

**FEATURES** Li-ion powered Portable CD burner with 24x read, 24x write, 10x re-write, USB 2.0. Quite large.
**SUPPORTS** CF Type I/II, SD, MMC, MS, SM
*SUMMARY* ***Back up to CDs on the road while the improved interface provides greater piece of mind***

WDC SCORE 91% JUL 2004

**£400 Street Price — Jobo Giga Vue**

**DESCRIPTION** Picture Viewer
**PLATFORMS** Windows, Mac
**Features** 40/60GB, USB 2.0, RAW support, 320 x 480 pixel screen
*SUMMARY* ***A touch-sensitive screen and RAW support are among the top features of this cool device***

WDC SCORE 87% APR 2005

**£315 Street Price — Jobo Giga One**

**DESCRIPTION** Multimedia Viewer
**PLATFORMS** Windows/Media
**Features** 20GB, 2in screen
*SUMMARY* ***Simple, effective and reasonably priced player that just works***

WDC SCORE 84% FEB 2006

**£350 Street Price — Apple iPod Photo**

**DESCRIPTION** 40/60GB Multimedia player
**PLATFORMS** Windows/Mac
**FEATURES** AAC, MP3, WAY, JPEG,AIFF, GIF, BMP, PNG,
*SUMMARY* ***Limited functions, with reliance on computer. Good music player, better functionality with iPod connector***

WDC SCORE 84% MAR 2005

**£400 Street Price — Nikon Coolwalker**

**DESCRIPTION** Photo player
**PLATFORMS** Windows/Mac
**FEATURES** CF slot, USB 2, 2.5in screen, JPEG, TIFF, NEF
*SUMMARY* ***Understandably Nikoncentric, but easy to use and quick to use and learn***

WDC SCORE 83% JULY 2005

**£300 Street Price — Innoplus Phototainer**

**FEATURES** JPEG viewer, MP3 and MJPEG video player with 3.5in colour screen. CF I&II only, adaptors for other cards extra. **CAPACITY** 30GB
*SUMMARY* ***Very similar to the Smartdisk Flashtrax Multi Media Viewer***

WDC SCORE 80% APR 2005

**£258 Street Price — Tatung Elio Photo Jukebox**

**DESCRIPTION** MultiMedia player
**PLATFORMS** Windows/Mac
**FEATURES** 20GB, 3.5in LCD, JPEG, TIFF, MP3. SD, USB 2.0,
*SUMMARY* ***Small enough for your pocket but better suited for MP3s than photos***

WDC SCORE 80% APR 2005

## Editing
### software

**€124 Street Price — DxO Optios Pro 3**

**DESCRIPTION** Digital correction software and RAW processor
**PLATFORM** Windows/Mac
**DOWNLOADABLE TRIAL** www.dxo.com
*SUMMARY* ***Works very well, is easy to use and good value***

WDC SCORE 92% Dec 2005

**£522 Street Price — Adobe Photoshop CS2**

**DESCRIPTION** Image-editing suite
**PLATFORMS** Mac OS X/Windows 2000/XP
**DOWNLOADABLE TRIAL** www.adobe.com
*SUMMARY* ***The biggest and best version yet, with even more photographic tools***

WDC SCORE 91% JULY 2005

**£60 Street Price — Ulead PhotoImpact 10**

**DESCRIPTION** Image Editing Suite
**PLATFORMS** Windows 98SE, 2000, Me or XP
**DOWNLOADABLE TRIAL** www.ulead.com
*SUMMARY* ***If you're looking for a cheaper rival to Photoshop, it could be what you need***

WDC SCORE 90% FEB 2005

**£69 Street Price — Adobe Photoshop Elements 4.0**

**DESCRIPTION** Image-editing suite
**PLATFORMS** Windows
**DOWNLOADABLE TRIAL** www.adobe.co.uk
*SUMMARY* ***Great new features and all the good bits of Photoshop without the hefty cost***

WDC SCORE 88% NOV 2005

**£99 Street Price — Corel Paint Shop Pro X**

**DESCRIPTION** Image-editing suite
**PLATFORMS** Windows
**DOWNLOADABLE TRIAL** www.corel.co.uk
*SUMMARY* ***Lots of useful features that will improve and enhance your photos with a few keystrokes***

WDC SCORE 87% NOV 2005

## Organising
### software

**£59 Street Price — Apple Aperture**

**DESCRIPTION** RAW Workflow and organising
**PLATFORMS** Mac OS X
**DOWNLOADABLE TRIAL** No
*SUMMARY* ***Slick and fast, but let down by high cost and compatibility issues with older Macs***

WDC SCORE 85% March 2006

**£120 Street Price — iView Media Pro 3.0**

**DESCRIPTION** Digital Asset Management
**PLATFORMS** Mac OS X/ Windows 2000/XP
**DOWNLOADABLE TRIAL** www.iview-multimedia.com
*SUMMARY* ***Catalogues a wide variety of formats quickly and effectively, with useful new features***

WDC SCORE 87% FEB 2006

**£113 Street Price — Extensis Portfolio 8**

**DESCRIPTION** Digital Asset Management
**PLATFORMS** Mac OS X/ Windows XP
**DOWNLOADABLE TRIAL** www.extensis.com
*SUMMARY* ***Powerful, fast and professional DAM system but complicated for home use***

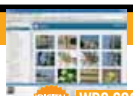
WDC SCORE 86% MAR 2006

**FREE Street Price — Adobe Lightroom beta**

**DESCRIPTION** Raw Workflow and Organising
**PLATFORMS** Mac, Windows expected
**DOWNLOADABLE TRIAL** http://labs.macromedia.com /technologies/lightroom
*SUMMARY* ***Still in Beta but very impressive thus far***

WDC SCORE 91% MAR 2006

**FREE Street Price — Picasa**



**DESCRIPTION** Organising software
**PLATFORMS** Windows
**DOWNLOADABLE TRIAL** http://picasa.google.com
*SUMMARY* ***While the tools are not advanced, this is great for the home user***

WDC SCORE 89% DEC 2005

## Plug-ins
### software

**£55 Street Price — Pixel Genius Photokit Sharpener**

**DESCRIPTION** Image sharpening
**PLATFORMS** Windows / Mac
**DOWNLOADABLE TRIAL** www.pixelgenius.com
*SUMMARY* ***Image sharpening workflow tool, from capture to output***

WDC SCORE 91% MAY 2004

**£55 Street Price — Pixel Genius Photokit Colour**

**DESCRIPTION** Colour tools and effects
**PLATFORMS** Windows 98 and up, Mac OS 9.1
**DOWNLOADABLE TRIAL** www.pixelgenius.com
*SUMMARY* ***Time-saving software capable of a wide variety of excellent results***

WDC SCORE 90% MAY 2005

**£40 Street Price — Iridius PS Actions**

**DESCRIPTION** Adobe Photoshop Actions
**PLATFORMS** Windows 2000/XP, Mac X
**DOWNLOADABLE TRIAL** www.adobe.co.uk
*SUMMARY* ***For the busy photographer, the Iridus action set is a fantastic, time-saving life saver***

WDC SCORE 91% NOV 2004

**£99 Street Price — Real Viz Stitcher Express**

**DESCRIPTION** Panorama creator
**PLATFORMS** Windows 2000, SP2, XP, Mac OSX, 10.2
**DOWNLOADABLE TRIAL** www.realviz.com
*SUMMARY* ***Simple interface and powerful stitching at a reasonable price***

WDC SCORE 88% OCT 2005

**£90 Street Price — Genuine Fractals 4.0**

**DESCRIPTION** Superb fractal-powered enlargement plug-in
**PLATFORMS** Windows
**DOWNLOADABLE TRIAL** www.dcpsystems.co.uk
*SUMMARY* ***Good results for anyone who wants to make large prints from their digital photographs***

WDC SCORE 88% SEP 2005

**FREE Street Price — Pixmantec Raw Shooter Essentials**

**DESCRIPTION** Raw image processor
**PLATFORMS** Windows/Mac
**DOWNLOADABLE TRIAL** www.lizardtech.com
*SUMMARY* ***Powerful features, elegant and smart interface, missing some advanced tools***

WDC SCORE 88% OCT 2005

**£140 Street Price — Extensis Photoframe 2.5**

**DESCRIPTION** Collection of edge effects
**PLATFORMS** Windows / Mac
**DOWNLOADABLE TRIAL** www.extensis.co.uk
*SUMMARY* ***Combine and customise any of the 2000+ natural and digital frames or create your own***

**£140 Street Price — Extensis Pixel Smart Scale**

**DESCRIPTION** Tool for rescaling images up to 1600%
**PLATFORMS** Windows / Mac
**DOWNLOADABLE TRIAL** www.extensis.co.uk
*SUMMARY* ***Enlarge images beyond their natural limits, with no loss of colour or quality***

**£140 Street Price — Extensis Mask Pro**

**DESCRIPTION** Professional cut outs around complex shapes
**PLATFORMS** Windows, Mac
**DOWNLOADABLE TRIAL** www.extensis.co.uk
*SUMMARY* ***Complex masks, selections, clipping paths made easy. Perfect edges every time***

**£100 Street Price — Nik Sharpner Pro**

**DESCRIPTION** Pro image sharpening tool
**PLATFORMS** Windows/Mac
**DOWNLOADABLE TRIAL** www.nikmultimedia.com
*SUMMARY* ***Precise, controllable sharpening using a choice of criteria. Top-draw plug-in***

YYePG Proudly Presents, Thx for Support

# Internet Directory

## www.whatdigitalcamera.com

TO PLACE CLASSIFIED ADVERTISING PLEASE PHONE 020 7 261 2929 FAX 020 7 261 6579


SHOPPING.NET
SEARCH.SHOP.SAVE
Before you buy a Digital Camera compare prices at www.shopping.net www.shopping.co.uk

FotoTech
0845 226 2077
Digital Photo Frames
The perfect way to display your digital photos. See our website for a large selection.
www.fototech.co.uk

Flash Guardian
Data Recovery & Photo Recovery
Is your camera asking to format your card?
Has your PC or Mac hard drive failed?
Have you accidentally formatted your camera card or deleted your photos?
Have you lost vital photos or data?
If the answer to any of these is yes, then call Flash Guardian's 24 hour helpline, drop us an e-mail, or visit our website for more information and friendly advice. Special discounts to WDC readers - just ask!
Visit www.flashguardian.co.uk
Email info@flashguardian.co.uk
Tel 0845 68 60 688
Calls charged at local rate

www.digi-prints.com
TURN YOUR DIGITAL IMAGES INTO REAL PHOTOS!
- Latest in Fuji Digital Minilab systems
- Order your print using our FREE software (available from www.digi-prints.com)
- Order your prints through your internet browser
- Alternatively order prints on CD!
- 24 hour turn around on orders placed before 3PM weekdays!
- Gloss and Lustre finishes, bordered or unbordered.
- Printed on Fuji Crystal Archive paper
- 5"x4" to 12"x18" (larger sizes on request)
- Mugs, T-shirts and mousemats!
- PRINTS STARTING FROM JUST 5P!!

www.CameraPower.co.uk
Batteries & Adapters
FREE, FAST Delivery
massive range always held in stock!
Tel: 0870 872 6730

Memoryforless.co.uk
Digital Media Specialists
Store Vision PSC-100 NEW !
The StorVision PSC-100 is a portable storage device which supports almost all of the memory cards available today. The PSC-100 provides simple and portable back up option for all the content from your memory cards to its internal 2.5 inches hard drive.
Full Spec :
•Portable USB Hard disk to backup all your files from your memory cards
•Blue LCD Backlight display with transfer status in %, capacity available on the Hard Disk, type of card inserted, capacity used on the memory card, and battery level
•Compatible with all memory cards without any adapter
•Easy to use via only a 2 button operation: Copy and Power on/off
•Copies all files including JPEG, RAW, videos, etc..
•Low cost per MegaByte: around 0.23 pences only!
•Internal rechargeable batteries (2 hours)
•Supplied with a carry case, charger, USB Cable, CDRom and manual
•USB 2.0 connection to your computer (PC or Mac)
•USB Universal Card reader / reader to access your memory cards
Memoryforless are offering this product for £95.97 Inc Vat & Free P&P

no fees to contributors
shoot, upload, sell
fast and easy to use
upixa
Showcase your work to the world at upixa.com
register now : sell stock online from 2 to 20 megapixels browser upload or FTP
upixa.com
the microstock library for UK photographers and agencies

Your image printed directly onto CANVAS
Pixel SmArt
www.pixelsmart.co.uk

YOUR IMAGE ON CANVAS!
• High quality canvas prints from photos or digital files
• Various sizes and finishes
• See our website for details
www.artandimages.co.uk

NEW!
PermaJet
ClassicFineArt
Fibre Base Gloss 295 gsm
Fine Art
PermaJet's new Fibre Base Gloss inkjet paper is the closest match yet to a traditional darkroom paper. It has a slightly textured brilliant white semi-gloss surface which is instant-dry and scuff resistant. Fibre Base Gloss has a very large colour gamut and is suitable for both dye and pigment inks. Available in sheets and rolls, it's an ideal paper for black and white as well as colour prints.
The entire range of PermaJet products is available from us to order online - visit our web site for full details. We normally offer same day despatch on orders received up to 3pm weekdays, with free carriage on UK orders over £100.
Why not check out our Black & White Digital Workshop CD too - presented by Les McLean, Richard Ross and Richard Brown it covers a wide range of topics to help you get the most from digital monochrome.
RH Designs
Secure online ordering at www.rhdesigns.co.uk

COLCHESTER CAMERA REPAIR SERVICE
Official OLYMPUS, Canon service centre.
Canon Warranty Repairs. Free estimates. Most other makes repaired. Video repairs. Full postal service.
2 Barrack Street, Colchester CO1 2LJ
Tel: 01206 790009


YYePG Proudly Presents, Thx for Support

Memory CardZoo

www.memorycardzoo.co.uk

tel: 0845 200 8348 email: sales@memorycardzoo.com

**Sandisk 1GB**
Secure Digital Ultra II
**only £47.82**

**Sandisk 1GB**
Memory Stick Pro
**only £39.54**

**Kingston 15 in 1**
Hi-Speed Card Reader
**only £15.77**

FREE DELIVERY ON ALL CRUMPLER BAGS!!

Competition

WIN AN

OLYMPUS E-500!!!

For your chance to win this amazing new E-500 digital SLR simply complete our online quiz about the new Olympus Type H XD cards.

High Speed!

**Olympus 1GB**
XD Type H
**only £52.88**

**Lexar 2GB**
CF Pro (133X)
Sale **£72.59**

www.memorycardzoo.co.uk

We sell genuine UK stock only, no grey imports or refurbished items

Prices shown are inclusive of VAT. Prices subject to change, please see website for up-to-date prices! P&P from £1.99. Trademarks Acknowledged.


## CAMERAS FOR SALE


**187 EDGWARE ROAD**
**126 EDGWARE ROAD**
**MARBLE ARCH, LONDON W2**

# K.K. ELECTRONICS

**MAIL ORDER HOTLINE**
**020 7723 1436**
**020 7402 4592**
**www.kkelectronics.co.uk**

### DIGITAL STILL CAMERAS — SONY

**DSC T7 £219**

| | |
|---|---|
| DSC S40 | £105 |
| DSC S60 | £139 |
| DSC W30 | £155 |
| DSC S90 | £159 |
| DSC W5 | £169 |
| DSC W15 | £179 |
| DSC W50 | £179 |
| DSC W7 | £209 |
| DSC P200 | £209 |
| DSC W17 | £229 |
| DSC T9 | £269 |
| DSC H1 | £276 |
| DSC M2 | £309 |
| DSC N1 | £319 |
| DSC R1 | £555 |

### DIGITAL STILL CAMERA ACCESSORIES

| | |
|---|---|
| NP BG1 Battery | £29 |
| NP FR1 Battery | £40 |
| NP FT1 Battery | £40 |
| ACC CFT Kit | £55 |
| ACC CBG Kit | £35 |
| DPP FP30 Printer | £69 |

### DIGITAL STILL CAMERAS — PANASONIC

**DMC FZ7 £299**

| | |
|---|---|
| DMC LS1 | £119 |
| DMC LZ2 | £189 |
| DMC LZ3 | £189 |
| DMC FX8 | £199 |
| DMC FX9 | £238 |
| DMC FZ5 | £244 |
| DMC FX01 | £259 |
| DMC FZ7 | £298 |
| DMC LX1 | £333 |
| DMC FZ30 | £374 |

### PANASONIC CAMCORDERS

| | |
|---|---|
| NVGS 27 | £229 |
| NVGS 37 | £269 |
| NVGS 180 | £369 |
| NVGS 280 | £499 |
| NVGS 300 | £529 |

### PANASONIC SD CARDS

| | |
|---|---|
| RPSD 128 | £16 |
| RPSD 256 | £20 |
| RPSD 512 | £35 |
| RPSD 01 | £49 |
| RPSD 02 | £79 |

### DIGITAL STILL CAMERAS — CANON

**EOS 350D £499**

| | |
|---|---|
| A410 | £109 |
| A430 | £129 |
| A520 | £149 |
| A530 | £159 |
| Ixus i Zoom | £199 |
| Ixus 55 | £199 |
| A540 | £199 |
| A620 | £209 |
| Ixus 60 | £239 |
| Ixus 750 | £269 |
| Ixus Wireless | £299 |
| S80 | £319 |
| EOS 350D (Lens Kit) | £499 |
| EOS 30D (Lens Kit) | £849 |

### CASIO

| | |
|---|---|
| EX Z60 | £179 |
| EX Z750 | £209 |
| EX Z850 | £279 |

### CANON CAMCORDERS

| | |
|---|---|
| MV 890 | £199 |

### CAMCORDERS — SONY

| | |
|---|---|
| CCD TRV 238 | £179 |
| DCR TRV 270 | £194 |
| DCR HC 24 | £259 |
| DCR HC 35 | £269 |
| DCR TRV 480 | £289 |
| DCR HC 32 | £319 |
| DCR HC 39 | £319 |
| DCR DVD 105 | £345 |
| DCR HC 44 | £349 |
| DCR HC 42 | £359 |
| DCR PC 53 | £359 |
| DCR HC 46 | £385 |
| DCR DVD 205 | £397 |
| DCR DVD 202 | £399 |
| DCR PC 55 | £419 |
| DCR DVD 203 | £449 |
| DCR HC 94 | £465 |
| DCR DVD 404 | £515 |
| DCR HC 96 | £519 |
| DCR DVD 405 | £565 |
| DCR PC 1000 | £923 |
| DCR DVD 403 | £629 |
| DCR DVD 505 | £699 |
| HDR HC 1 | £1,099 |

### DIGITAL STILL CAMERA ACCESSORIES — SONY MEMORY STICKS

**MEMORY STICK**

| | |
|---|---|
| MSH 128 | £18 |
| MSH 128 S2 | £46 |

**MEMORY STICK DUO**

| | |
|---|---|
| MSH M64 N | £17 |
| MSH M128 N | £18 |

**MEMORY STICK PRO**

| | |
|---|---|
| MSX 256 S | £25 |
| MSX 512 S | £40 |
| MSX 1 GS | £49 |
| MSX 2 GS | £89 |

**MEMORY STICK PRO DUO**

| | |
|---|---|
| MSX M256 S | £25 |
| MSX M512 S | £40 |
| MSX M 1GB ST | £49 |
| MSX M2 GS | £89 |

**MEMORY STICK PRO "HIGH SPEED"**

| | |
|---|---|
| MSX 256 N | £34 |
| MSX 512 N | £49 |
| MSX 1 GN | £85 |
| MSX 2 GN | £149 |
| MSX 4 GN | £279 |

**MEMORY STICK PRO DUO "HIGH SPEED"**

| | |
|---|---|
| MSX M256 N | £34 |
| MSX M512 N | £49 |
| MSX M 1 GN | £85 |
| MSX M 2 GN | £149 |

OPEN MON-SAT 10AM-7PM OPEN ON SUNDAYS 126 EDGWARE RD W2 11:30-3:30PM OPEN BANK HOLIDAYS 11AM-5PM

ALL GOODS ARE SUPPLIED BRAND NEW WITH FULL UK GUARANTEE. ALL ITEMS SUBJECT TO AVAILABILITY. PRICES CORRECT AT TIME OF PRINT BUT CAN BE SUBJECT TO CHANGE WITHOUT NOTICE E&OE. KK ELECTRONICS ACCEPTS NO RESPONSIBILITY FOR PRINTING ERROR/OMISSIONS


YYePG Proudly Presents, Thx for Support

TO PLACE CLASSIFIED ADVERTISING PLEASE PHONE 020 7 261 2929 FAX 020 7 261 6579

# Campkins
CAMERA CENTRE

## Nikon D70S

Phone to check availability and promotion

**Twin Lens Nikkor Kits**

| | |
|---|---|
| D50 + 18-55mm + 70-300G | £549.99 |
| D50 + 18-55mm | £449.99 |
| D50 + 18-55mm + 55-200 | £599.99 |
| D70 S + 18-70 DX | £749.99 |

**Nikkor AF Lenses**

| | |
|---|---|
| DX Fisheye 10.5mm f2.8 ED | £499.99 |
| 14mm f2.8 D | £1099.99 |
| 50mm f1.8 D | £99.99 |
| AFG 28-100 | £89.99 |
| AF-D 12-24mm (for Digital Camera only) | £729.99 |
| AF-S 17-35mm f2.8 | £1049.99 |
| AF-S DX 17-55mm f2.8 | £979.99 |
| 18-35mm f3.5-4.5 D | £370.99 |
| AF-S DX 18-70m f3.5-4.5 G | £199.99 |
| 24-85mm f2.8-4 D/F | £409.99 |
| AF-S 24-85mm f3.5-4.5 G IF ED | £289.99 |
| AF-S VRG 24-120mm f3.5-5.6 IF ED | £439.99 |
| AF DG 28-200mm f3.5-5.6 AF DH | £199.99 |
| 70-200mm VR AF5 - G2.8 | £POA |
| AF VR 80-400mm f4.5-5.6 DEC | £POA |
| AFD VR 18-200 | £570 |

**Subject to availability**

## OLYMPUS

**LATEST E500 OLYMPUS**

| | |
|---|---|
| E500 +14-45 Zoom | £589.99 |
| E500 Twin Lens Kit 14.45 + 45-150 | £689.99 |
| add FL36 Flash extra £100 | |
| E330 + 14-45 | £899.99 |

## IN STOCK AT TIME OF ADVERT PLACEMENT

| | |
|---|---|
| Canon EOS 20DA Body | £1500 |
| Specialist Use. You won't need us to tell You If You Want One! | |
| Leica Digital Module R | |
| If required, we do have excellent condition | |
| Leica R8 body | £800 |
| Leica R9 Body | £1075 |
| Used Sigma EX 28-70/2.8 EOS | £150 |
| Used Sigma 17-35 f2.8/4 EOS Boxed as new | £185 |
| Used Sigma EX 70-200mm f2.8 1C EOS fit boxed | £479 |

## Canon

**LATEST FULL FRAME DIGITAL**

| | |
|---|---|
| EOS 5D Body | P.O.A. |
| 5D + 24-105 Kit | P.O.A. |

## EOS 350D KIT

Inc 18.55 Zoom, inc 1GB, inc spare battery all at

**£599.99**

## TRADE UP YOUR DIGITAL SLR

**Buy A 350D Body**

| | |
|---|---|
| Your D60 B/O + | £360 |
| Your EOS 10D B/O + | £320 |
| Your EOS 300D B/O + | £400 |

**Buy A Nikon D70s Body**

| | |
|---|---|
| Your D50 B/O + | £300 |
| Your D100 B/O + | £300 |
| Your F100 B/O + | £450 |

**Buy A Nikon D200 Body**

| | |
|---|---|
| Your D70 + | £950 |
| Your D70s + | £900 |

**Buy A Canon EOS 30D Body**

| | |
|---|---|
| Your EOS 10D B/O + | £699 |
| Your EOS 20D B/O + | £599 |
| Your EOS 350D B/O + | £699 |

**Buy A Canon EOS 5D Body**

| | |
|---|---|
| Your EOS 10D + | £1699 |
| Your EOS 20D + | £1599 |

**Purchase to claim £200 rebate**

## Canon EOS Lenses

| | |
|---|---|
| EF 10-22mm f3.5-4.5 USM | £589.99 |
| EF 16-35mm f2.8L USM | £1099.99 |
| EF 17-40mm f/4.0L USM | £599.99 |
| EF 17-85mm f/4-5.6 IS USM | £399.99 |
| EF 20-35mm f/3.5-4.5 SU | £299.99 |
| EF 24-70mm f/2.8L USM | £929.99 |
| EF 24-85mm f/3.5-4.5 USM | £269.99 |
| EF 28-90mm f/4.0-5.65 unboxed | £89.59 |
| EF 28-105mm f/3.5-4.5 U/2 | £195.99 |
| EF 28-105mm f/4-5.6 USM | £149.99 |
| EF 28-135mm f/3.5-5.6 USM IS | £359.99 |
| EF 28-200mm f/3.5-5.6 USM | £339.99 |
| EF 70-300mm IS USM | £399.99 |
| EF 55-200mm f/4.5-5.6 IL USM | £199.99 |
| EF 70-300mm f/4.5-5.6 DO IS U | £899.99 |
| EF 90-300mm f/4.5-5.6 Non USM | £139.99 |
| EF 100-400mm f/4.5-5.6L U IS | £1189.99 |
| EF 2x extender | £249.99 |

## MISCELLANEOUS DISCONTINUED PRODUCTS

**Some Variety between 6 and 12 months guarantee**

| | |
|---|---|
| Pentax Optic 750Z | £269 |
| Pentax Optio 33WR | £119 |
| Contax TVS Digital | £349 |
| Olympus C220 | £58 |
| Olympus 5500 | £149 |
| Nikon 8800 | £475 |
| Olympus C765 | £199 |
| Olympus C160 | £59 |
| Canon A410 | £99.99 |
| Nikon 5600 | £119.99 |
| Fuji F450 | £149.99 |
| Minolta F300 | £125 |
| Ricoh RZ1 | £119 |
| Olympus MJU 600 | £149.99 |
| Sealife Digital 2mp | £130 |

## LOOKING FOR ITEMS? WRITE/FAX YOUR REQUIREMENTS

*Post & Packing add £5 extra – Prices include 17.5% VAT*
*Callers welcome Mon-Sat 8.45am to 5.30pm. - Fax line 24 hours*

**Tel: 01223 364223 Fax 01223 313852**
**websales@campkinscameras.co.uk**

**CAMPKINS CAMERA CENTRE**
**11 Rose Crescent, Cambridge CB2 3LP**

TO PLACE CLASSIFIED ADVERTISING PLEASE PHONE 020 7 261 2929 FAX 020 7 261 6579

# MXV PHOTOGRAPHIC

**Quality Photographic Equipment urgently required. We buy outright, sell on commission or exchange. We can estimate our offers prior to inspection.**

**Over 4,000 items in stock**

**Check www.mxvphotographic.com**

**For carefully priced and graded items with long guarantees. Callers Welcome.**

**ON SITE REPAIRS BY PROTECH 01825 762793**

**Open Tuesday-Saturday 9.30am - 5.30pm**

**Hempstead Rise, Uckfield, East Sussex TN22 1QX**
**Tel: 01825 761940/765740 Fax: 01825 761950**
**Email: info@mxvphotographic.com**
**www.mxvphotographic.com**

## ACCESSORIES

VAPEX
RECHARGEABLE BATTERIES
4X AA 2500MAH £3.99
4X AA 2600MAH £4.25
4X AAA 900MAH £2.99
4X AAA 1000MAH £3.85
ALL BATTERIES COME WITH PLASTIC CASES ADDITIONAL CASES AVAILABLE IN SEVERAL COLOURS 50p
USB CHARGER...CS-07
FOR 2X AA OR 2X AAA BATTERIES WITH 4X 900MAH AAA BATTERIES £5.50
WITH 4X 2500MAH AA BATTERIES £6.75
IDEAL FOR MP3 PLAYERS
LCD DISPLAY
CHARGE 4X 2500MAH AA IN ‹ 6 HOURS
FAST CHARGER...CS-C01
MAINS, CAR OR USB POWERED WITH 4X 2500MAH AA BATTERIES £14.50
WITH 4X 2600MAH AA BATTERIES £14.99
SUPER-FAST CHARGER...CS-C05
COOL GREEN BACKLIT LCD DISPLAY WITH 4X 2500MAH AA BATTERIES £16.50
WITH 4X 2600MAH AA BATTERIES £16.99
BACKLIT LCD DISPLAY
CHARGE 4X 2500MAH AA IN ‹ 4 HOURS
BUILT-IN FAN COOLING
CHARGE 4X 2500MAH AA IN 40 MINS
ULTRA-FAST CHARGER...CS-C06
MAINS OR CAR POWERED WITH 4X 2500MAH AA BATTERIES £25.50
WITH 4X 2600MAH AA BATTERIES £25.99
www.component-shop.co.uk
CALL: 0845 130 9967

YYePG Proudly Presents, Thx for Support

# Consumables

**www.whatdigitalcamera.com**

MyMemory 1GB 66X SD Card
MyMemory's High-Speed (66X) SD cards combine high storage capacities, fantastic transfer rates and high security. SD is now the most popular type of digital camera memory.
Only £17.99
Olympus 512MB xD Picture Card
Only £17.99
Lexar 512MB Memory Stick Pro
Only £17.99
Kingston 1GB Compact Flash Card
Only £17.99
Sandisk Extreme 2.0GB Compact Flash Card
More low prices online at: www.mymemory.co.uk/wdc
or call us on: 0871 873 7899
MYMEMORY
LETS GO DIGITAL
DELIVERY AND INSURANCE £3.95 - *PRICES SHOWN ARE INCLUSIVE OF VAT & DUTIES WHERE APPLICABLE AND ARE ACCURATE AT TIME OF GOING TO PRESS. WE RESERVE THE RIGHT TO CHANGE PRICES. PLEASE CHECK THE WEBSITE FOR UP-TO-THE-MINUTE PRICING. ALL TRADEMARKS USED WITHIN ADVERTISEMENT ARE FULLY RECOGNISED AND ARE FOR ILLUSTRATIVE PURPOSES ONLY


## INSURANCE


For long-established insurance cover, go to
**www.photographicinsurance.co.uk**
or call Freephone
**0800-015-4484**
for your free Photocover info pack



WHAT DIGITAL CAMERA


## HOLIDAYS & COURSES

Joe Cornish · Charlie Waite · Heather Angel · Phil Malpas · Paul Harris · Clive Minnitt · Giles Stokoe · Duncan McEwan · Ben Osborne · David Ward · Nick Meers · Chris Weston · Trevor Waldron · Nick Jenkins · Desi Fontaine · Rob Welch
Travel with the best in 2006
Light&Land
photographic tours and workshops
visit lightandland.co.uk or call 01432 839111 to order our 2006 brochure
Maine • Faroe Islands • Namibia • Tuscany • Mongolia • Istanbul • Southern Chile • Bryce & Zion • Iceland • Cuba • Alsace • Knoydart



YYePG Proudly Presents, Thx for Support



TO PLACE CLASSIFIED ADVERTISING PLEASE PHONE 020 7 261 2929 FAX 020 7 261 6579

SanDisk
www.sandisk.com

# what's **new** on whatdigitalcamera.com

check out the latest exclusive content on our website

## Web Gallery
Viewers' choice

### Evening Winter
*by Edgars Dudins*

**Details:** 'I took this at a local lake during the 'golden hour' while trying out my new Canon Powershot A610. I used aperture priority and an aperture of f/2.8.'

*For a bigger view of this and other readers' pictures visit the web gallery*

SanDisk

## WIN! A 1GB MEDIA CARD

Edgars' picture received the most votes from visitors to the web gallery this month, and wins a Sandisk 1GB media card. To vote on this month's gallery, visit the website. To enter your own pictures and stand a chance of winning, see page 19

## EBAY CHARITY AUCTIONS

Every month we auction a great digital camera or accessory on ebay, and all the proceeds go to a named charity. Check out the Charity auction section of the WDC website to see what great gear we're auctioning this month...

ebay

**NEWS**
The latest news from the world of photography, updated daily

**360° VIRTUAL TOUR**
View 360° rotational shots of all the cameras featured in our buying guide

**IMAGE DOWNLOADS**
Download camera test shots and images used in our software tutorials

**FORUMS**
Get advice, ask opinions or get something off your chest in our busy forums

**TECHNIQUE**
Get the lowdown on how to get the most out of your camera and images

YYePG Proudly Presents, Thx for Support

NOKIA
Nseries

Nokia
N80

# Use your music player to surf the net.

Send an e-mail with your camera. Or shoot video on your MP3 player. The Nokia Nseries fuses imaging, music, connectivity and e-mail to make so many things suddenly possible. Experience the world of high-performance mobile multimedia at nokia.com/nseries.

Nokia
N70

Nokia
N90

## Nokia Nseries
## See new. Hear new. Feel new.

NOKIA
Connecting People

Copyright© Nokia 2006. Nokia and Nokia Connecting People are registered trademarks of Nokia Corporation.
Product available soon. Contact your local Nokia dealer for more information.

YYePG Proudly Presents, Thx for Support

## “It’s an 1,800km trek in some of the coldest temperatures on the planet.”

## “As photographer, my number two priority is to get the images back safely.”

With the swift rate of environmental change, the Top Of The World Expedition 2006 may be the last opportunity for humans to cross the ice of the Arctic Ocean from Russia to Canada, passing the North Pole. Expedition photographer Martin Hartley’s number one priority is to complete the journey safely. His number two priority is to record his fellow adventurers and the dog teams as they make headway in temperatures that will routinely reach -50°C. In such conditions, renowned for defeating materials and disabling electronic equipment, Martin will rely on specially-developed Fujifilm media cards to store his images.

“Putting Fujifilm in my camera has always been second nature to me, film or digital. We only have one crack at this, and I have to trust every single last piece of my equipment.”

For more information
visit **www.adventureecology.com/mission1**

**www.fujifilm.co.uk**

YYePG Proudly Presents, Thx for Support

FUJIFILM
...love the picture

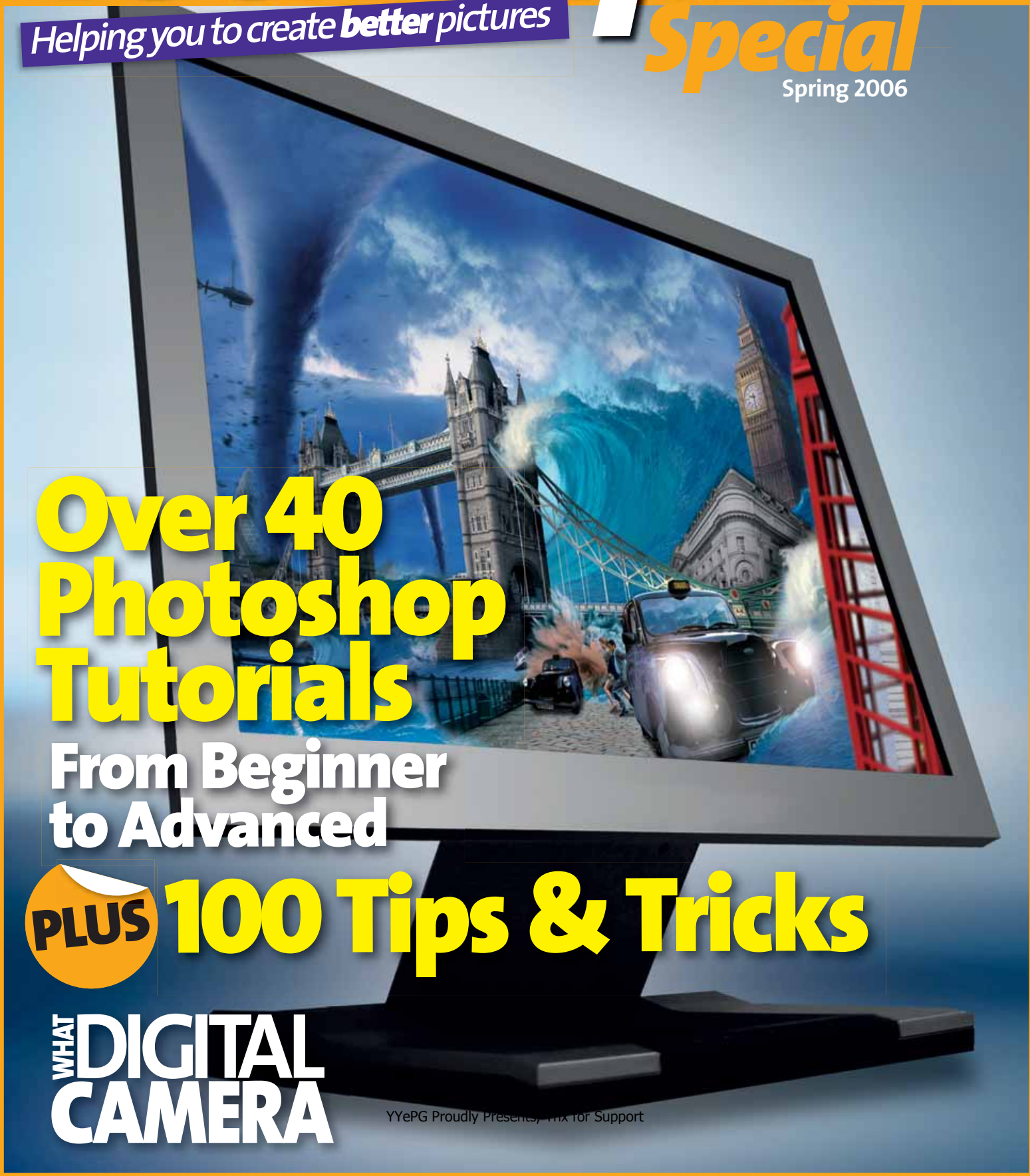
EXCLUSIVE 110 PAGE ZINIO DIGITAL EDITION

FREE

# What Digital Camera Techniques Special

Helping you to create **better** pictures

Spring 2006



## Over 40 Photoshop Tutorials

From Beginner to Advanced

PLUS 100 Tips & Tricks

WHAT DIGITAL CAMERA

YYePG Proudly Presents, Thx for Support

# DxO Optics Pro

## Automatically boost the image quality of your Digital-SLR with a single click!

"DxO Optics Pro is an absolutely essential tool for me."
– Hank Gans, Pro Photographer
*www.hankgans.com*

*Canon EOS-1D Mark2 and 15mm fisheye lens.*

**DxO Optics Pro** uses a totally novel approach to break through the traditional limitations of Digital-SLRs and their lenses. Using ultra precise camera and lens specific DxO Modules, DxO Optics Pro automatically eliminates optical defects such as Distortion, Vignetting, Chromatic Aberrations and Lens Softness. DxO Optics Pro also automatically reduces image noise by 2 f-stops and optimizes image exposure and dynamic range. Working on both RAW and JPEG images, DxO Optics Pro will unleash the full potential of your D-SLR and lenses.

FREE, 21 day, fully functional demo on www.dxo.com.
Full list of supported cameras and lenses on www.dxo.com/modules.

**New! Version 3.5**
**WIN - MAC**

2006 Photographer

YYePG Proudly Presents, Thx for Support

DXO®
Simply better images

INFOFLASH • www.infoflash.fr

Helping you to create **better** pictures

WHAT DIGITAL CAMERA

# What Digital Camera Techniques Special

# Welcome...

**...to this very special edition of What Digital Camera Techniques. This month we have teamed up with Zinio.com to bring you this fantastic bumper magazine of great Photoshop tutorials in a digital version. Plus it comes completely free with your May issue of What Digital Camera!**

Featuring more than 40 of our favourite easy-to-follow tutorials and projects and over 100 useful tips and tricks, What Digital Camera Techniques is a unique package of the very best in image-editing skills.

Whether you are just about to take your first steps or already have some knowledge of using Photoshop CS or Elements, you will find that over the next 110 pages, there are tutorials to match all levels of experience.

For example, if you are thinking of scanning your traditional prints using your flatbed scanner, then you will find the perfect set of tutorials starting on page 10. Featuring **Perfect Scanning** (page 10), **Correcting Colour Casts** (page 12) and **Creative Cropping** (page 14), this set of tutorials is an ideal starting point for anyone wanting to digitise their photos.

Or find out how to create professional-looking black and white images from colour with **Converting to Black & White** (page 44).

There are also fantastic projects for you to have a go at, like the cool **Holiday Montage** (page 62) or the terrifying **Disaster Montage** (page 102).

We hope you enjoy this exclusive Zinio edition of What Digital Camera Techniques and be sure to look out for more fantastic tutorials and techniques in What Digital Camera, every month.

**Steve Crabb**
Tutorials Editor

YYePG Proudly Presents, Thx for Support

# What Digital Camera Techniques Spring 2006 Contents

**06 Introduction** *to Editing Tools*
Get the low down before you start, on all of Photoshop's tools and icons and how to use them

**10 Perfect** *Scanning*
Making your existing prints into digital images is simple using a scanner, but the results may need working on

**12 Correcting** *Colour Casts*
Colour casts can ruin otherwise perfect photos – but you can eliminate the scourge of casts with a few clicks

**14 Creative** *Cropping*
It's easy to improve your photographs with a bit of judicious cropping

**16 Correcting** *Verticals*
After a few simple steps in Photoshop, perspective distortion of buildings need no longer be a problem

**18 Sharpening** *Images*
Sharpening using the Unsharp mask gives you more control. Here's how to use it

**20 Create a** *Digital Photo Album*
Gone are the days of boxes of odd prints cluttering up the house. Here, we explain how to organise your photos

**23 Red Eye** *Removal*
Despite your best efforts, the dreaded redeye strikes again! But it's easy to fix...

**24 Tone & Contrast** *With Curves*
Curves is one of the most useful tools for adjusting tone, contrast and colour, and it's not as scary as it looks

**26 Correct** *Lens Distortion*
It's easy to correct two common types of lens distortion, barrelling and pincushioning

**28 Dodging** *and Burning*
Lighten or darken selected areas of your image with these traditional darkroom

**30 Clone** *Tool*
It's easy to remove unwanted parts of your image with this great tool

**32 Adding** *a Border*
If a picture's destined for display, all it needs to set it off is a border

**34 Make** *a Contact Sheet*
Keeping track of your images can be difficult – but it doesn't need to be

**39 Soft** *Focus Techniques*
Soft focus effects to enhance mood shouldn't be confused with out of focus

**40 Panoramas**
Panoramic photos can look stunning and they're easy to do

**43 Adding** *File Info*
Add hidden information to images so they can be sorted and filed


## 100 TOP TIPS

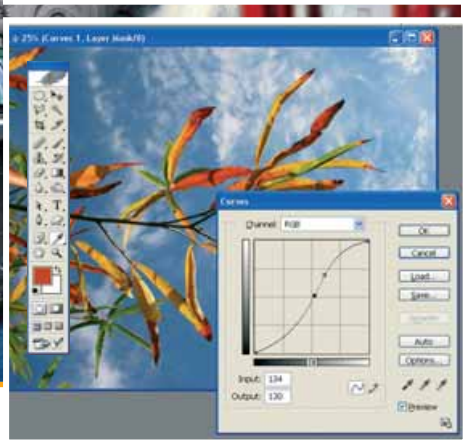

**36 Basic** *Editing*
If you are a Photoshop virgin – or even if you're not – then these tips and tricks are just for you

**54 Great** *Output*
Twenty-five tips to help you get the most out of your printing output

**79 Photoshop** *Techniques*
From why Version Sets are so useful to multiple captioning: our favourite Photoshop and Elements tips

**106 Advanced** *Editing*
Twenty-five more editing tips if you really want to go even further

YYePG Proudly Presents, Thx for Support



# WHAT DIGITAL CAMERA

## What Digital Camera Techniques

Produced by IPC Media Ltd. King's Reach Tower, Stamford Street, London SE1 9LS Tel: 020 7261 5323 Fax: 020 7261 5398, wdc@ipcmedia.com

**Editor** - Nigel Atherton
**Tutorials Editor / Design** - Steve Crabb
**Production** - Jacqueline Porter

## Helping you to create **better** pictures

**44 Convert** *to B&W*
How would your colour images look in marvellous mono?

**50 Create** *a Duotone & Tritone*
Designed for the printing industry, duotones can be be used to apply subtle tints to monochromatic images

**52 Perfect** *Printing*
The most crucial stage in making a digital photograph is the final printout. We guide you through the process

**57 Radial** *Blur*
Filters are a quick and easy way to add dramatic effects. Be very careful when you apply them, though

**58 Layers,** *A Beginners Guide*
Using layers to create more exciting images isn't as scary as it looks. Programs like Photoshop use a palette for easy navigation

**62 Holiday** *Montage*
Don't hide all those holiday snaps away after everyone has seen them – make a fantastic holiday montage

**65 History** *Palette*
We all know the feeling when you've created a masterpiece and then you notice a mistake. No problem – just go back in time!

**66 Hand Colouring** *B&W*
With a little time and patience it's easy to hand colour a b&w image using Photoshop

**68 Paths** *To Success*
The Pen tool has myriad uses. We use it to give a glow of light around a rose

**70 3D** *Stereoscopic Images*
Let's go stereoscopic! View your own photographs in three dimensions

**74 Retouching** *The Body*
Most celebrity photos in magazines are retouched to some extent. We reveal some techniques you can use on your pics

**74 Retouching** *Eyes*
Improve the whiteness and colour of eyes with these steps, using the Magic Wand and the Pen tool

**76 Retouching** *Teeth*
Always wanted teeth perfect for the Oscars? Here's how to improve whiteness and repair a tooth

**78 Patch** *Tool*
You don't need to spend a fortune on cosmetic surgery to look good. Improve your looks with the Patch tool

**82 Restoring** *Old Colour Photos*
We show you how you can bring your old, treasured colour photographs back to life

**86 Reclaim** *Lost Shadow Details*
We show you how to reclaim lost details in dark shadow areas of your images

**88 Adjustment** *Layers*
Adjustment layers allow flexible colour changes; learn their power

**90 Create** *A Website*
A weekend with nothing to do? Now is a great time to root out cherished photos and make an online gallery

**94 Image** *Enhancements*
We show you how to improve your landscapes with a few clicks of your mouse

**96 Create** *A Work of Art*
We show you how you can make life – and your photos – imitate art by using artistic filters

**100 Layer** *Blend Modes*
Layer blend mode does what the name suggests – it blends a layer with another layer in a choice of modes

**102 Create** *A Disaster Montage*
With God-like power, we show you how to get the best from photorealistic montages

FOR DAILY DIGITAL NEWS LOG ON TO OUR WEBSITE www.whatdigitalcamera.com

YYePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

*Introduction to...*

# Image *Editing Tools*

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS AND CS**
**LEVEL**
**BEGINNER**

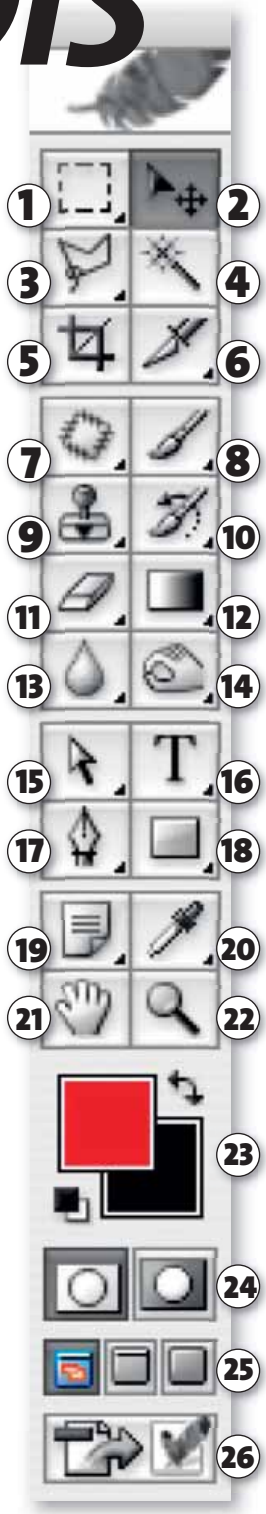
## The toolbar is the centre of the image-editing universe. It is here you'll find almost everything you'll need to fix your photos

**Photoshop toolbar is typical of most image-editing software packages. The tools are positioned in various work groups down each side of the bar, starting with Selection tools.**

When a selection is made with any of these tools the result is called a marquee, a thin line of flashing black and white dots.

The next set of tools includes the Brush tools: these all behave in a similar way by manually changing the size and softness of the brush. The text tool is also found in this group.

Image Correction tools are great for achieving overall effects to make your pictures perfect. Then you have the General tools, which is a set of tools that help you navigate around your image, select colours and even repair unsightly blemishes. Last, you have the forground and background colour swatches.




## PHOTOSHOP CS TOOL BAR

**1 MARQUEE** Make simple selections.
**2 MOVE TOOL** Use this to drag objects around a layer.
**3 LASOO** Make more controlled selections.
**4 MAGIC WAND** Make pixel-based selections.
**5 CROP** Delete unwanted areas of an image.
**6 SLICE** Web-based cutting tool to divide an image.
**7 PATCH** Used for controlled retouching.
**8 BRUSH** Use this tool to paint on colour or masks.
**9 CLONE** Duplicate sampled pixels and apply them.
**10 HISTORY BRUSH** Allows you to repaint a specific state of an image from memory.
**11 ERASER** Erase parts of an image with this tool.
**12 GRADIENT** Fade one colour to another or to transparent.
**13 BLUR** Blur specific pixels.
**14 DODGE AND BURN TOOL** Traditional darkroom methods are located here.
**15 DIRECT SELECTION** This tool allows you to adjust paths selection points.
**16 TEXT TOOL** Works like a normal word processor, generating type.
**17 PEN TOOL** Use this tool to draw controlled selections.
**18 SHAPE** Make simple shapes into selections.
**19 NOTES** Use this tool to apply sticky notes over your image. Audio notes can be made too.
**20 EYE DROPPER** This tool samples individual pixel colours for the swatch palette.
**21 HAND TOOL** Move an image around your screen if you have zoomed in.
**22 ZOOM TOOL** Enlarge the viewing area of the image.
**23 SWATCH PALETTE** The foreground colour on top is the active colour and the background colour behind can be swapped by clicking on the small arrow.
**24 QUICK MASK** Use this function when you want create a mask.
**25 VIEW MODE** Use these buttons when you want to view your image without desktop or tool clutter.
**26 IMAGE READY** Use this area to launch Adobe Image Ready software.

YYePG Proudly Presents, Thx for Support

# Photoshop *Elements Tools*

### THE MARQUEE

These tools are used to select rectangular or ellipse shaped areas, which can then be worked on without affecting the rest of the image. They are defined by a thin line of flashing black and white dots.

### LAYER OR MOVE TOOL

When a layer is selected, this tool allows the image on the layer to be moved in any direction.

### LASSO

The useful tools allow you to 'draw' around irregular shapes within the image, such as people. Variations on the basic lasso include the POLYGONAL LASSO (which traces from point to point) and the MAGNETIC LASSO (which 'sticks' to lines and edges).

### THE MAGIC WAND

The 'magic' WAND lets you select pixels of a similar colour. The degree of colour similarity of selected pixels can be adjusted, and it can be set to select pixels from anywhere within the image or just those adjoining the point that you choose to click on.

### THE SELECTION BRUSH

The useful SELECTION BRUSH enables you to 'paint' a selection marquee anywhere on your image. Ideal for irregular shapes.

### CROP TOOL

The CROP tool allows you to crop any part of an image by drawing a selection box around the required area. The area outside the selection will be deleted.

### THE SHAPE TOOL

The SHAPE TOOLS enable you to draw paths. There are seven variations in this nest. This is the custom shape tool.

### THE TYPE TOOL

Not actually a brush tool, the TYPE tool is used to put text onto the image. Nested variations include VERTICAL and MASKING type tools.

### THE PAINT BUCKET

The icon that looks like a PAINT BUCKET is exactly that. It fills any selected area with a pre-determined solid colour.

### THE GRADIENT

Again, not really a brush tool, the GRADIENT tool graduates a colour or effect within a selection and is great for making backgrounds.

### PAINT BRUSHES

The BRUSH tool 'paints' colours, masks etc onto the image. Its size, shape etc can be adjusted. It can also be set to act like an airbrush.

### THE PENCIL

The PENCIL tool is similar to the brush but has different qualities. As with the brush tool the size, shape, etc can be adjusted.

### THE ERASER

The ERASER removes pixels with a mouse-click. It can take on several forms such as an airbrush, a pencil or a block.

### THE REDEYE

You will be amazed at how the REDEYE tool simply wipes away those annoying redeye effects that occur in many flash photos.

### THE BLUR TOOL

Has the ability to soften pixel areas giving them a blurred feel.

### THE SHARPEN TOOL

This has the ability to sharpen pixel areas and make them more crisp.

### SPONGE TOOL

The SPONGE tool literally washes – desaturates – your image, and affects the contrast.

### THE SMUDGE TOOL

The SMUDGE tool allows you to 'push' pixels around, treats the image something like wet sand.

### THE DODGE TOOL

Holds back light, in a digital way, creating an underexposed effect.

### THE BURN TOOL

Darkens the image, creating an overexposed effect.

### THE CLONE TOOL

Picks up pixels from an area of your image and 'puts' them down again wherever you paint.

### THE EYE DROPPER

Allows you to select a colour and place it into either the foreground colour or background colour swatch.

### THE HAND TOOL

Enables you to scroll around the image to see different parts.

### ZOOM TOOL

Behaves exactly as you would expect, zooming in and out of your image so you can see detail.

YYePG Proudly Presents, Thx for Support

NON UK READER OFFER

# SUBSCRIBE TO WHAT DIGITAL CAMERA'S ZINIO EDITION *TODAY!*

## AND MAKE GREAT SAVINGS!

If you've enjoyed this special digital edition of What Digital Camera, you'll be pleased to know that your favourite digital photography magazine can now be bought and read anytime, anywhere on your PC or laptop!

By taking out a What Digital Camera Zinio subscription today, you'll get the magazine sent to your email account every month – without experiencing the usual overseas delays. There are NO postage or delivery fees so it's cheaper than buying it in the shops, PLUS Zinio's easy-to-use format allows you to view 360° views of the latest camera reviews AND features a handy Keyword search mechanism.

To buy a subscription to What Digital Camera magazine, or to one of our other great titles simply visit **www.zinio.com**

## AMAZING SAVINGS FOR OVERSEAS READERS!

**A year's Zinio subscription to WDC (13 issues) will cost you ONLY:**

- $29.97 in the USA
- $40.24 in Australia
- $45.34 in New Zealand

**COMPARED to a year's *postal* subscription to WDC (13 issues) which would cost you:**

- $96 in the USA
- $138 in Australia
- $155 in New Zealand

**THAT'S MORE THAN HALF THE COST OF A TRADITIONAL SUBSCRIPTION!**

** Rates may vary slightly depending on current exchange rate*

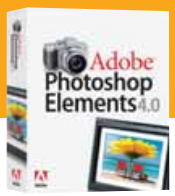
## CHECK OUT THESE OTHER GREAT TITLES TOO

YYePG Proudly Presents, The 1st Support

# Scan We Fix it?

Making your existing prints into digital images is simple using a scanner, but the results may need working on. Follow these tips below for perfect scans

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**BEGINNER**




**We've all got boxes and folders of prints hidden away around the house, but what to do with them in this digital age? Full-colour scanners are so affordable now that even if you don't own a digital camera, this option is a great way to get them into the computer.**

First-time users may be a little bamboozled by the scanned results that appear on their screens, however. The image maybe a little askew, too dark and definitely not the right colour, but keep in mind that scanning is just the first step. Most photographers perform a series of standard adjustments on their pictures as soon as the scanner finishes its work. Designed to correct and enhance the picture, these basic steps should become a regular part of your scanning process.

Now you can learn how to scan like a pro and get great results every time with our easy-to-follow tutorial.

## BUYING ADVICE

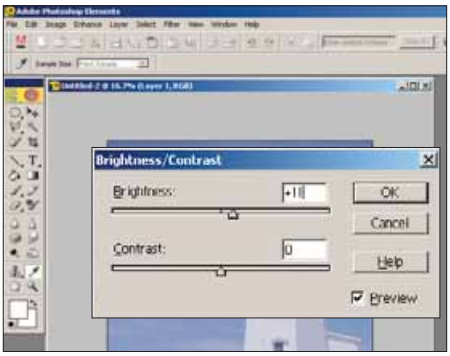
Choosing the right scanner for you is easy if you know what to look for. The key indicator of quality is the resolution, which is how many pixels per inch (ppi) the scanner can produce – the higher the number, the bigger the print you can make. A 1200x600ppi scanner will give you great results for desktop digital printing. Be wary of a scanner that boasts a sper-high resolution such as 9600ppi, as this refers to a software-diven enlargement routine called interpolation, which can yield results of lesser quality.

You can also buy special film scanners for use with negatives or transparencies.

If you know you'll be scanning three-dimensional items such as books, look for scanners that feature a lid with an expandable hinge so that the lid can be raised a couple of inches above the glass platen.

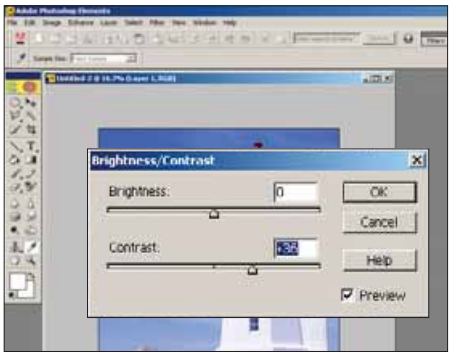
## 1 Straighten *pic*

It's likely that the first step you'll need to perform is to straighten the picture (even experts don't always get them straight in the scanner!). At the same time crop away the extra white space surrounding the image. The easiest way to do this is with the automated **Image>Rotate>Straighten** and Crop image command.




## 2 Adjust *brightness*

As the example scan is a little dark and lacking in contrast, the next step in the process is to brighten the whole picture. Using the **Enhance>Adjust Brightness/Contrast> Brightness/Contrast** feature move the Brightness slider to the right and make the picture lighter. Be careful that the delicate white areas (eg of the lighthouse) don't disappear.




## 3 Adjust *contrast*

Now to add some contrast to the picture. Using the same **Enhance>Adjust Brightness/ Contrast** feature, this time move the Contrast slider to the right to increase the contrast of the scene. Again be careful as too much contrast and you will lose details in the shadows and the highlights.

YvePG Proudly Presents, Thx for Support

## TOP TIPS!

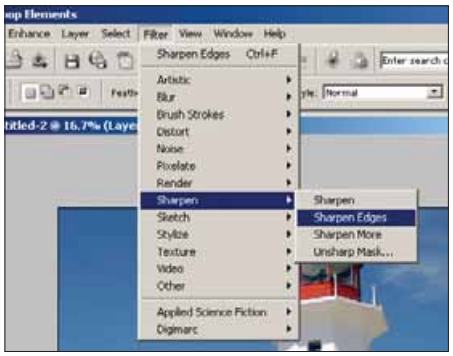
**Make sure that you don't lose delicate light tones or convert detail in the shadows to just black. If you make a mistake making these changes, then use the Edit>Undo feature (sometimes called the Step Backward feature) to reverse your alterations.**

**HOW TO DO IT USING PHOTOSHOP**

**Basically using the same procedure you can achieve the same result; however Levels could be used instead of Brightness/Contrast.**

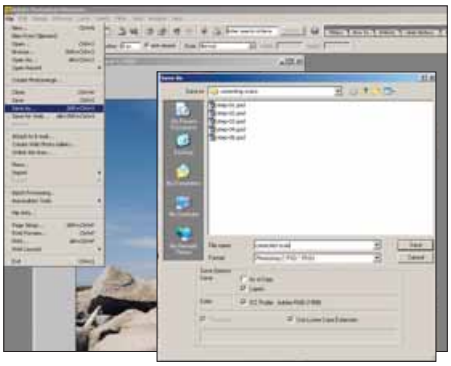
## 4 Colour *correct*

Now to the colour. This image seems to have too much blue in it. Use **Enhance> Adjust Colour>Colour Variations** which shows a before and after preview as well as thumbnails displaying different colour corrections. To remove the blue cast click on the Decrease Blue thumbnail, being careful not to go too far and make the picture yellow.




## 5 Sharpen *edges*

Unless you have Automatic Sharpening turned on in your scanning software, your pictures will need to be sharpened a little after scanning. Elements provides several sharpening filters that are perfect for this job. We'll use the **Filter>Sharpen> Sharpen Edges** option as it will only apply the feature to the edges and leave the smooth sky alone.



## 6 Save *as psd*

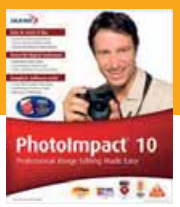
Now that our scan is looking pretty good, all we need to do is save the file. To do this we use the **File>Save or File>Save As** command. Type in the name of your file in the File Name text box and select Photoshop (.psd) as your file format. This is the most versatile format for storing your pictures.

JPEG Proudly Presents, Thx for Support

# Colour Casts

Colour casts can ruin otherwise perfect photographs – but you can eliminate the scourge of casts with a few well-chosen clicks

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**BEGINNER**




**Most photographers don't find it too difficult to determine when a change in contrast and/or brightness is needed in their pictures.**

But colour is an altogether different matter. It's not that we don't acknowledge the importance of correct colour, it is just that sometimes it's not all that easy to come by. First you need to identify the problem and then you need to remove the cast from the image.

Happily, it's easy to make colour corrections with PhotoImpact. The two separate correction tools contained in the Colour Balance feature are both based on a visual approach. The 'Preset' option (tab) uses a series of coloured thumbnails surrounding a central preview picture. Each of the thumbnails is tinted a slightly different colour – Red, Green, Blue, Yellow, Magenta, and Cyan.

To correct your colour cast problem simply click on the thumbnail that looks the most neutral. The preview image then takes on the new tint and the thumbnails are redrawn. Continue selecting different thumbnails until the colour is fully corrected.

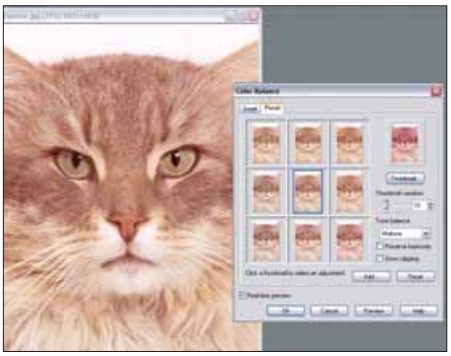
As an alternative, the 'Smart' option uses an approach that requires you to select the colour that the image should be and PhotoImpact alters the image accordingly.

**Left:** The white balance display from the camera LCD screen. Setting this before you start will help you to avoid colour casts

## TOP TIPS!

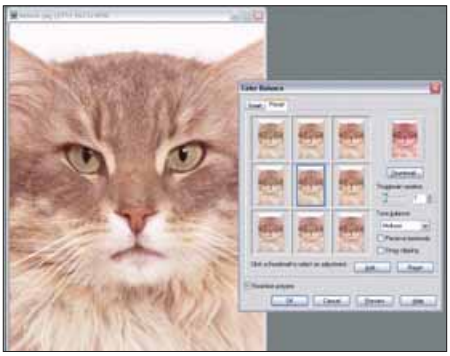
### AVOIDING CASTS - USE WHITE BALANCE

**The range and names given to white balance settings varies between cameras, but include:**
**AUTO: The camera adjusts the white balance as the light changes. Okay for daylight shooting but may struggle to cope with extreme changes.**
**DAYLIGHT: Sets a colour temperature of around 5,500K. The best choice for those who like to know what their camera is up to on their behalf.**
**CLOUDY: In cloudy conditions light is often bluer. This mode sets the camera to about 6000K.**
**TUNGSTEN: Also called Incandescent, this is the mode for domestic lights and lamps, (bulb or halogen) and sets a temperature of about 3200k.**
**FLUORESCENT: Fluorescent tubes produce an unpleasant greenish tinge. This mode adds some magenta to counteract this.**
**CUSTOM/MANUAL: For those who demand precise colour accuracy, in this mode you point the camera at a neutral area in your scene (eg a sheet of white paper or grey card) and it sets the precise temperature to remove any cast.**



## 1 Select *preset*

Select **Format>Color Balance**. Click the Real Time Previewing option to ensure that the changes that you make are reflected in the full image. Select the Preset tab. Click on the thumbnail that appears to be the most neutral.



## 2 Colour *change*

Don't be afraid to experiment clicking different thumbnails to see the results – you can always click the Reset button to undo your changes. When you're happy with the results click OK to process the colour change.

## 3 Smart *tab*

Click the Smart tab for the Current Color and Desired Color swatches. Select the correct colour for a specific picture part by clicking inside Desired Color. Click on this image part in the preview. The whole image will be changed. Click OK to complete.

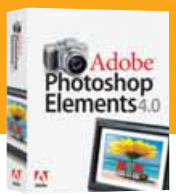
YYePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

# Creative Cropping

## Most of us don't get the perfect shot every time, but it's easy to improve your photos with judicious cropping

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS (MOVIE- CS)**
**LEVEL**
**BEGINNER**




**The act of cropping or removing parts of a picture that are unwanted is a skill that most digital photographers use regularly.**

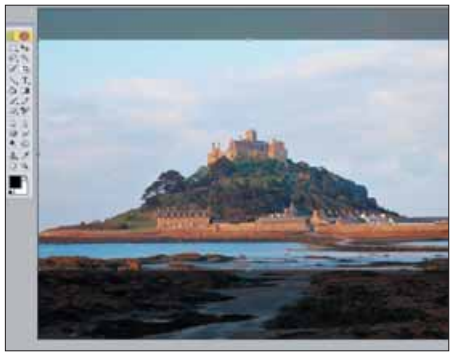
Apart from those seemingly rare occasions when you have the time (and good fortune) to be able to carefully construct the perfectly balanced composition, most pictures can be improved with a little cropping. It is a way for us to reframe our photographs after the fact.

Photoshop Elements (and in fact all image editing programs I have every used) has specially designed cropping feature called the Crop tool. Digital cropping is just a simple matter of drawing a rectangle around the parts of the picture that you wish to keep, leaving the sections that will be removed outside of the marquee. In Photoshop Elements areas outside the cropping marquee are shaded a specific colour (usually semi-transparent black) to allow the viewer to imagine the results of the crop.

The marquee can be resized or reshaped at anytime by click-dragging one of the handles on the edges and corners. When you are satisfied with your crop you can execute the command by double clicking your cursor inside the cropping marquee, pushing the Enter key or clicking on the 'tick' in the options bar.

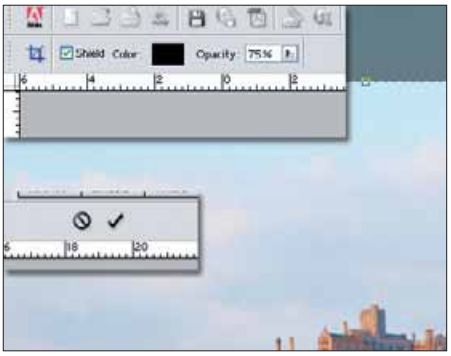
## TOP TIPS!

**FRONT IMAGE BUTTON**
**If you want the dimensions and resolution of an image to become the settings used to crop a second picture, then select the original and click the Front Image button to input the settings into the crop tool.**



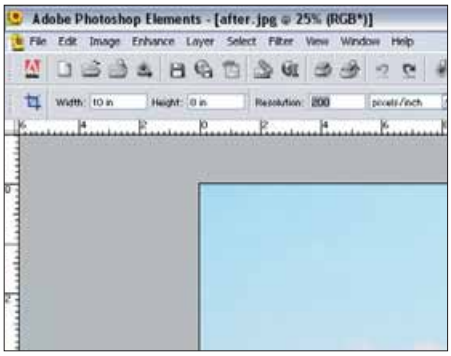
### 1 Select *crop tool*

Select the **Crop tool** and click-drag a marquee over the parts of the picture you want to keep. You don't have to be exact, as you can adjust the size and shape of the marquee using the handles.



### 2 Tinted *area*

Elements tints the area of the picture to be removed. You can alter the colour and opacity of this shading (called the Shield) using the settings in the options bar. Click the 'tick' in the bar.



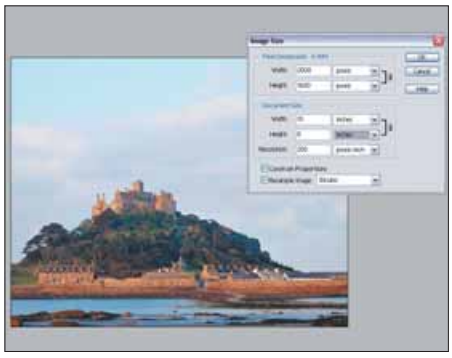

### 3 Specific *size*

You can make a crop of a specific size and resolution by adding these values to the options bar before drawing the cropping marquee. This way you can crop and resize in just one step.

YYePG Proudly Presents, Thx for Support

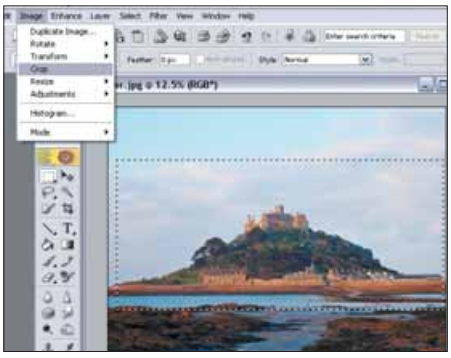
## 4 Draw *the crop*

With the dimensions and resolution values set when you click-drag the crop tool it will only draw rectangles the size and shape of the values you have entered.



## 5 Automatic *crop*

Elements will automatically crop and resize the picture. Here we're going to print on a sheet of 10x8in paper at a resolution of 200ppi. Checking **Image>Resize>Image Size** confirms the resize.



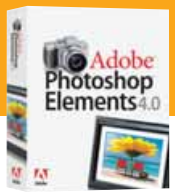
## 6 Another *one*

Another cropping technique makes use of a drawn rectangular selection or marquee to define the size and shape of the crop. Draw the marquee and select Crop from the Image menu.

YYePG Proudly Presents, Thx for Support

# Get *it Straight*

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**INTERMEDIATE**




## After a few simple steps in Photoshop, perspective distortion of buildings need no longer be a problem

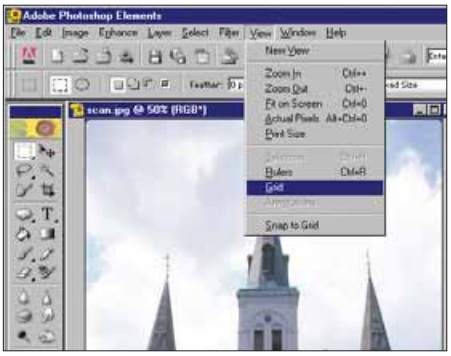
**You know the story – you visit a wonderful city on holiday wanting to capture as much of the local scenes and architecture as possible.**

You point your camera towards an impressive spired building only to find that you need to tilt your camera upwards in order to get the entire spires, including their tips, into the picture. It's only when you are back at home and about to print your photograph that you realise that that innocent 'tilt' has caused the edges of the building to lean inwards in the image.

But don't worry. Armed with your favourite image-editing program – here we've used Adobe Photoshop Elements – and our easy-to-follow steps below, it's simple to straighten all those leaning architectural shots.

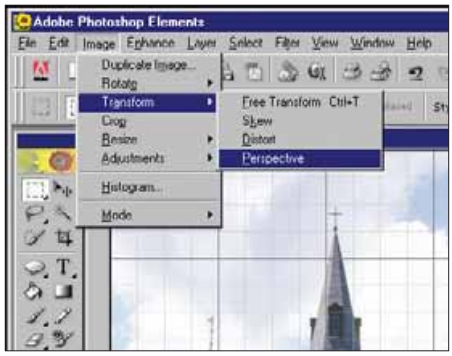
## TOP TIPS!

**JUDGE YOUR SHAPES**
**Use the shape of circular objects such as the clock in this photograph to help you judge the correct shape of the building**




## 1 Place *a Grid*

Open the offending image into Elements **File>Open**. Next, turn on the display grid by going to **View>Grid.** This will place a non-printing grid over the surface of the photograph.




## 2 Use *Perspective*

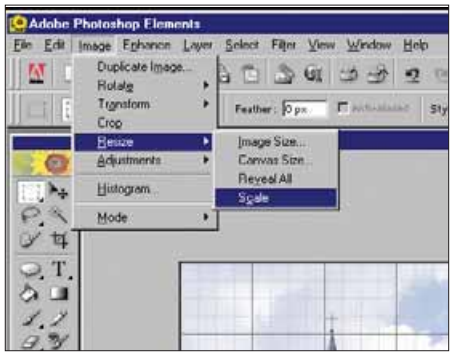
Move the outside two towers further apart to make them parallel using the Perspective feature, which is designed to increase or decrease the perspective effect in images. Select the feature by going to **Image>Transform>Perspective**.

## 3 Make *into a Layer*

If you get a warning sign saying that 'transformations (perspective changes) can only be applied to layers and would you like to make your picture into a layer?', choose OK then name your new layer or just leave it as Layer.

## 4 Drag *Outwards*

Grab either of the top left or right handles and drag them outwards. This will move the sides of the building out as well. Continue until the building's edges line up with a grid line. Double click on the picture to apply the transformation.




## 5 Scale *Feature*

To complete the correction you will need to make the building a little taller as the tilted camera will have artificially shortened the spires. Select the Scale feature from the Resize section of the Image menu, **Image>Resize>Scale**.

YYePG Proudly Presents, Thx for Support

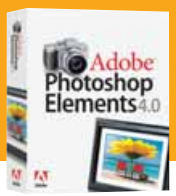
## 6 Drag *the Handles*

Notice that with the scale feature activated the handles have returned. This time when dragged they will resize the picture. Drag the centre top handle straight upwards to make the building taller. Double click on the picture to apply the size change.

FROM THIS...
TO THIS...

# Sharpening *Techniques*

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**BEGINNER**




## Sharpening using the Unsharp mask gives you a good deal of control in helping your subject to stand out clearly from the background. Here's how to use it

**Photoshop and Photoshop Elements provide several different choices for sharpening your pictures. All the options are located under the Sharpen heading in the Filter menu. The first three choices – Sharpen, Sharpen More and Sharpen Edges – provide a one-click change that makes your photographs appear sharper.**

The settings for each of these filters are fixed and can't be altered by the user. The fourth option, the Unsharp Mask filter (Filter>Sharpen >Unsharp Mask), provides greater control over the sharpening process by giving the user three sliders which can be used to alter the way the effect is applied to pictures.

The Amount slider controls the strength of the sharpening effect. Values of 50% to 100% are suitable for low-resolution pictures while 150% and 200% can be used on higher-resolution images.

The Radius slider value determines the number of pixels around the edge that are affected by the sharpening. A low value only sharpens edge pixels. High settings can produce noticeable halo effects around your picture so start with a low value first. Typically values between 1 and 2 are used for high-resolution images and 1 or less for screen images.

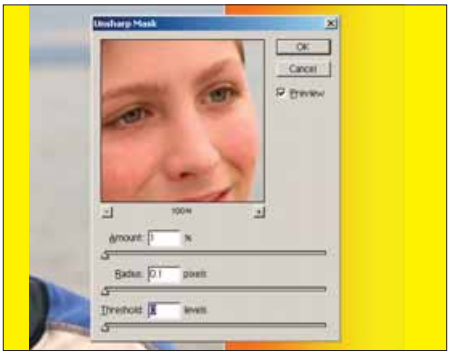
The Threshold slider is used to determine how different the pixels must be before they are considered an edge and therefore sharpened. A value of 0 will sharpen all the pixels in an image, whereas a setting of 10 will apply the effect only to those areas that are different by at least 10 levels or more from their surrounding pixels. In order to ensure that no sharpening occurs in sky or skin tone areas set this value to 8 or more.

## TOP TIPS!

**UNSHARP MASK FILTER** Be careful when you're using the Unsharp Mask filter. A little sharpening will improve the look of your photos, but too much sharpening is really noticeable and almost impossible to repair once applied. If you're unsure of your settings, apply the effect to a copy of the image first.

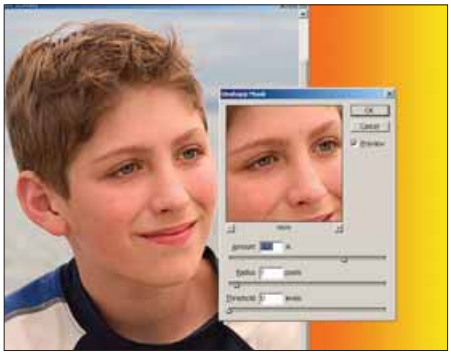
### 1 Zoom *in*

Make sure that your picture is zoomed in or magnified to at least 100% before selecting the Unsharp Mask option from the **Filter> Sharpen** menu.




### 2 Preview *option*

Select the Preview option in the dialogue box to ensure that the sharpening effects are shown on the full image.



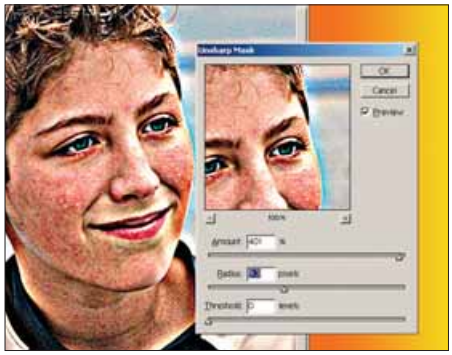
### 3 Amount *slider*

Start with the Radius set to 1 and the Threshold value adjusted to 0. Gradually move the Amount slider upwards, watching the sharpening effect as you go.

YYePG Proudly Presents, Thx for Support

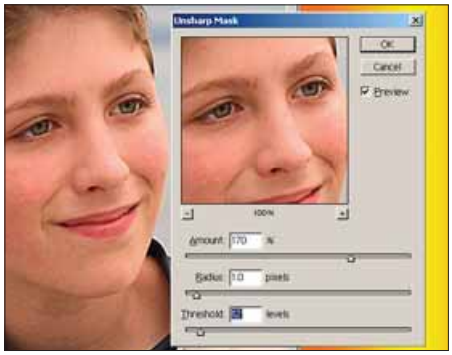
**Above:** In our example, the edges of the boy's hair and face didn't stand out very clearly from the background

**Right:** With a little sharpening, your focus is back on the mian subject



## 4 Unsharp *mask*

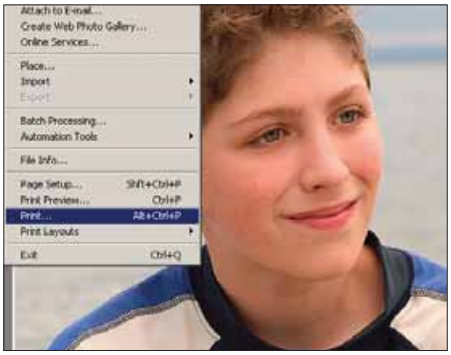
Stop when you find a setting where the picture appears clearer, but contains no obvious sharpening 'halo' effects.



## 5 Picture *edges*

To restrict the effect from being applied to skin tones gradually increase the Threshold until the sharpening is just being applied to the pic's edges.

YYePG Proudly Presents, Thx for Support



## 6 Final *step*

Make sure that sharpening is applied as the very last editing and enhancement step before printing or saving the image.

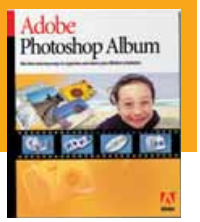
YYePG Proudly Presents, Thx for Support

*Make your own...*

# Digital Photo Album

Gone are the days of boxes of odd prints cluttering up the house. Here, we explain how to organise your photographs

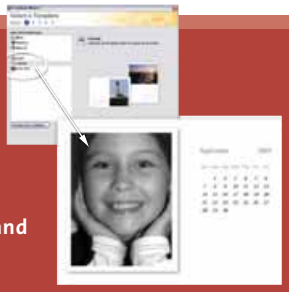
**SOFTWARE**
**ADOBE PHOTOSHOP PHOTO ALBUM**
**LEVEL**
**BEGINNER**




**With a digital camera those boxes of photos will soon be replaced by hundreds of digital photos on your PC. And there's nothing more frustrating than searching through hundreds of digital files looking for one picture.**

If you ever want to find your pictures easily again, you'll need to put them in some kind of order, by making a kind of digital filing system. Fortunately, doing that is simple and there are lots of software programs such as Photoshop Album (which we're using for this tutorial) to help you to get organised, by providing features designed to help sort out your photographs, and tools that help you to search for individual pictures when they are needed. >>

## TOP TIPS!



**TAGS**
**Using the 'Tags' system in Adobe Photoshop Album you can quickly and easily sort out your pictures and group them by subject category.**

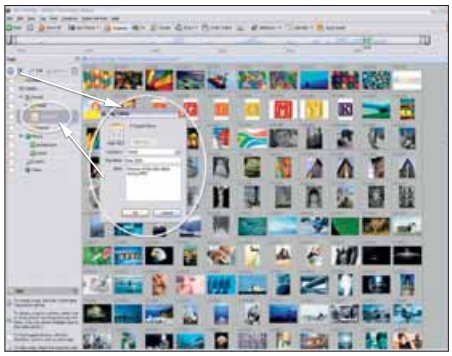
**CALENDAR**
**Output your groups of images as a calendar by selecting this option from the Creations Wizard.**

**GREETINGS CARD**
**Create your own personal greetings cards featuring pictures you have taken by first selecting the photograph and then clicking the Create button.**

**SLIDESHOW**
**Produce your own self-running slideshow using the Creations Wizard and a collection of Tagged pictures.**

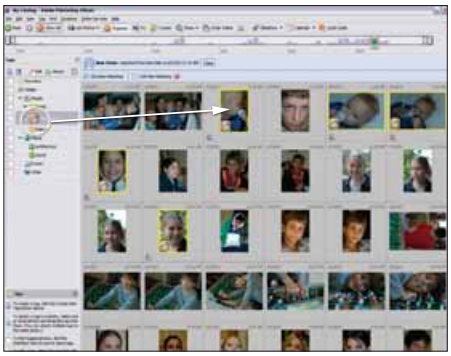
## 1 Tags *palette*

To start organising your images, click the Organise button in the menu bar. This will display a Tags palette on the left hand side of your thumbnails. Adobe Photoshop Album uses these tags to help to sort your files into subject groups.



## 2 Create *new tags*

Photoshop Album creates several tags automatically. You can create specific Tags to suit your own subjects using Create New Tags. With the Tag Editor open, simply type in a new heading and choose a category for the tag to sit under.



## 3 Group *pictures*

With your new Tags created and displayed in the Tags palette select a specific tag, such as 'family', and search for pictures that you want to include in this group. Click onto the thumbnail of your chosen pictures to add the Tag to them.

YYePG Proudly Presents, Thx for Support

<< It is estimated that the average home has around 1500 photographs knocking around. It's a fairly safe assumption that probably less than 10% of these have found their way into a photo album. The rest are squirrelled away in various drawers and cupboards. Even if they were all in albums it would be difficult, unless you were unusually obsessive about filing, to quickly lay your hand on a specific picture. Should we find that elusive print, and decide that we'd like to make an other copy for Aunt Edna, the next task is to find the negative. Assuming you could find it, you'd then have to hold them up to the window and decide, through squinting eyes, which of the seemingly identical negatives from the sequence is the right one.

Digital photography takes all this hassle out of keeping track of your images, and you can file and organise them for little or no expense. Here are a few tips and suggestions for keeping tabs.

## WAYS TO KEEP TRACK

**Camera numbering:** Every digital photo you take is automatically numbered by the camera.

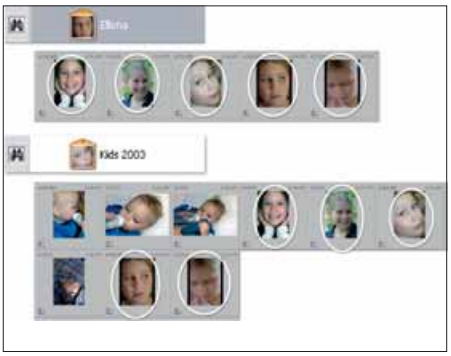
Normally the numbering starts again from 0001 every time you clear your memory card, but with many cameras you can set it up to keep going from where it left off. The benefit of sequential numbering is that every image you ever take on your camera will have its own unique number, and you won't have several dozen images on your PC all called 0001.

**Naming files:** Adding a name to each of your files, either instead of or preceding the number, makes them easier to identify. You could give them categorising names such as 'kids' or 'Lon' to denote London. Or add the year it was taken, for instance.

**Filing on the PC:** Once named, you can easily create a set of folders on your PC for each type of picture you take (one for kids, one for London etc). Naming your files also makes them searchable, so you can find them easily.

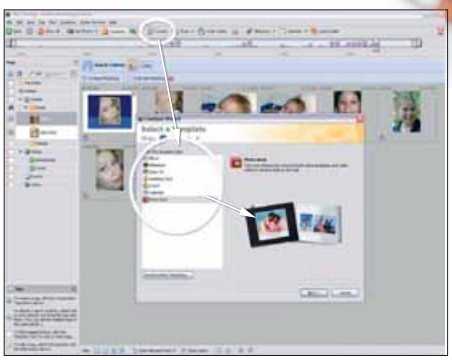
## 4 Find *and display*

Now when you want to find all the 'family' pictures all you have to do is click on the check box next to the tag that interests you, and Photoshop Album will then find and display all the pictures in this group in one window as thumbnails.




## 5 Multiple *tags*

Any picture can have multiple tags meaning that the same picture could appear in two different groups, making it even easier to find your photos. In our example the pictures of Ellena appear in both the 'Kids' group and the 'Ellena' group.



## 6 Other *options*

Once you've created a tagged group or album the program allows you to create a range of different items from your pictures. The options include slideshow, printable album pages, video CD, greetings card, calendar and bound photobook.

YYePG Proudly Presents, Thx for Support

**Above:** The redeye phenomenon is caused by light from the camera's flash reflecting off the blood-rich tissues in the back of the eye

**Above:** Carefully matching the colour painted over the pupils to the rest of the eyes makes the photograph look a lot better

# Remove *Redeye*

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**BEGINNER**

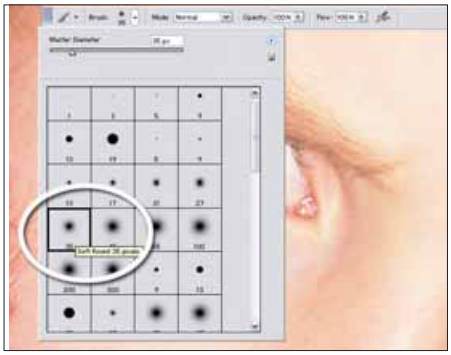
## Despite your best efforts, the dreaded redeye strikes again! But it's easy to fix...

**No matter how accomplished a photographer you are, one of the most often recurring – and annoying – occurrences must be when you get redeye in your night-time portraits.**

Despite the camera manufacturer's best efforts to include special redeye reduction technologies into their front-line digital cameras, the 'glowing eyes' syndrome still raises its ugly head in flash photographs of subjects in darkened environments all too often.

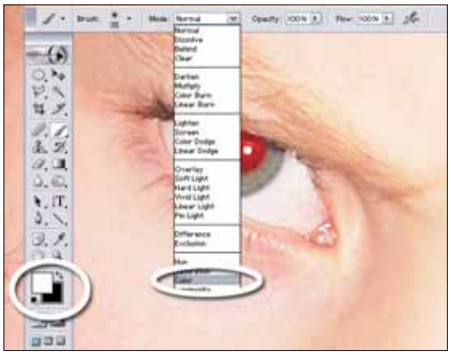
Most image-editing programs contain special 'redeye correction' tools designed specifically for the task of removing the alarming colour from the subject's eyes.

This is true for Photoshop Elements, which contains the Red Eye Brush tool, and for users of the latest version of Photoshop (CS) where the feature is called the Color Replacement Tool, but if you are one the many digital photographers who owns an earlier version of Photoshop then things aren't quite as straightforward.



## 1 Soft-edged *brush*

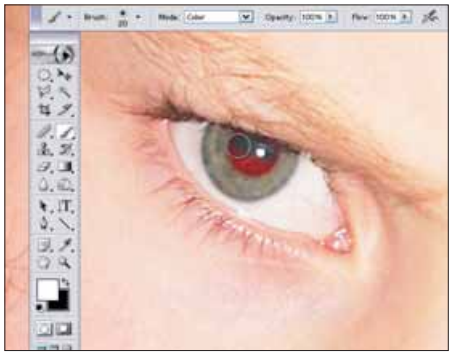
Start the process with your image open in the workspace and then choose the Brush tool from the toolbar. Click on the down arrow in the tool's option bar to reveal the Brush Preset picker. Select a soft-edged brush for your corrections. Enlarge the picture using **View> Zoom In** so that the eye is at least at 100% and can be seen clearly.



## 2 Adjust *size*

Move the cursor over the redeye and adjust the size of the brush until it's just smaller than the iris by pressing the square bracket left ([) to make it smaller and square bracket right (]) to increase its size. Make sure that the default colours are selected for the foreground and background swatches and change them by clicking on the small icons.

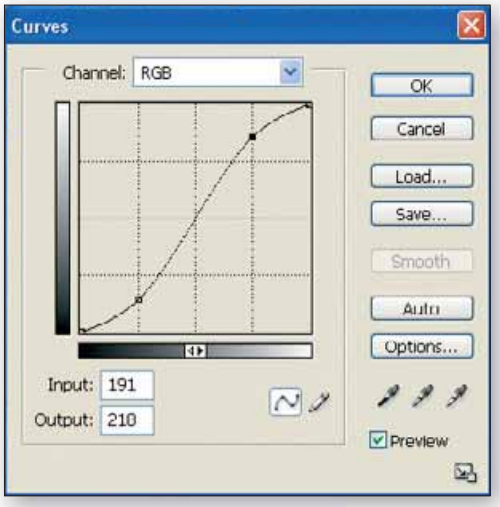
Free Proudly Presents, Thx for Support



## 3 Paint *over*

Now paint over the red area of the eye with the brush. You'll notice that the red colour is removed from the picture and replaced with just grey detail. Be careful not to move outside of the eye area when you're painting, otherwise the colour in this region will also be removed at the same time, so keep your strokes and brush size nice and small.

# Using *Curves*




**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**INTERMEDIATE**

## Curves is one of the most useful tools, for adjusting tone, contrast and colour, and it's not as scary as it looks

**Photoshop's Levels and Curves are related but subtly different. Broadly, you'd use Levels to maximise your image's tonal range, from dense black shadows to brilliant white highlights. Curves, however, are used for adjusting the tonal distribution within that tonal range.**

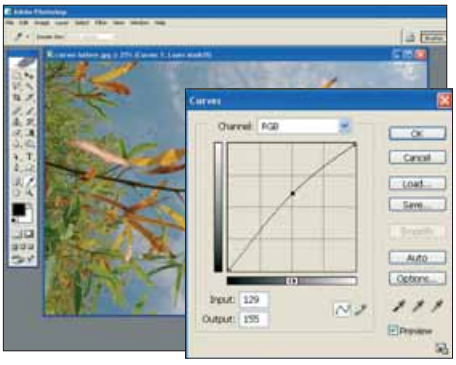
For example, you can use Curves to lighten or darken an image, without 'clipping' any of its shadow or highlight pixels. You can use it to increase the contrast in the midtones, shadows or highlights, or within specific tonal areas. There are lots of tricks to using Curves successfully, and we're going to explore some of them in this tutorial. The thing to remember about Curves, though, is that you never get something for nothing. Many images benefit from increased contrast in certain areas, and you achieve this by steepening the curve at that point. However, this inevitably means flattening it – reducing the contrast somewhere else.

For example, the classic 'S-shaped' curve increases contrast in the midtones, but only at the expense of lowered contrast in the highlights and shadows.

One of the most important tricks to learn with Curves adjustments then is just where your image is going to benefit from more contrast, and where you can afford to sacrifice a little to allow this. Keep trying subtle changes until you get the effect you want.

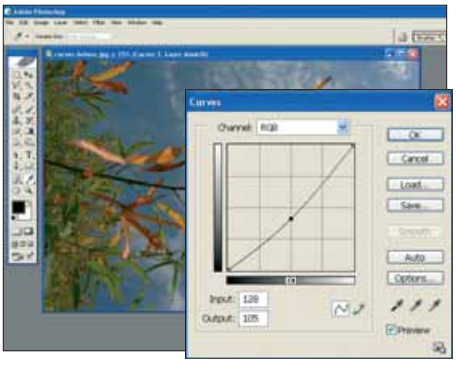
## TOP TIPS!

**MAKE AN ADJUSTMENT LAYER**
Use the pop-up button/menu at the bottom of the Layers palette to create a new 'Curves' adjustment layer. Use this new layer to perform your enhancements on. You can toggle the layer on and off to compare it to the original.



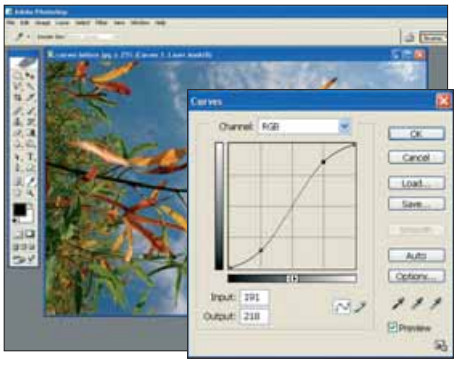
### 1 Increase *brightness*

The curves command is found by selecting **Image > Adjustments > Curves**. Click on the diagonal line to create a new 'point'. Here, we have applied a simple adjustment for lightening images. You just click and drag on the centre section of the curve in order to push it upwards.



### 2 Decrease *brightness*

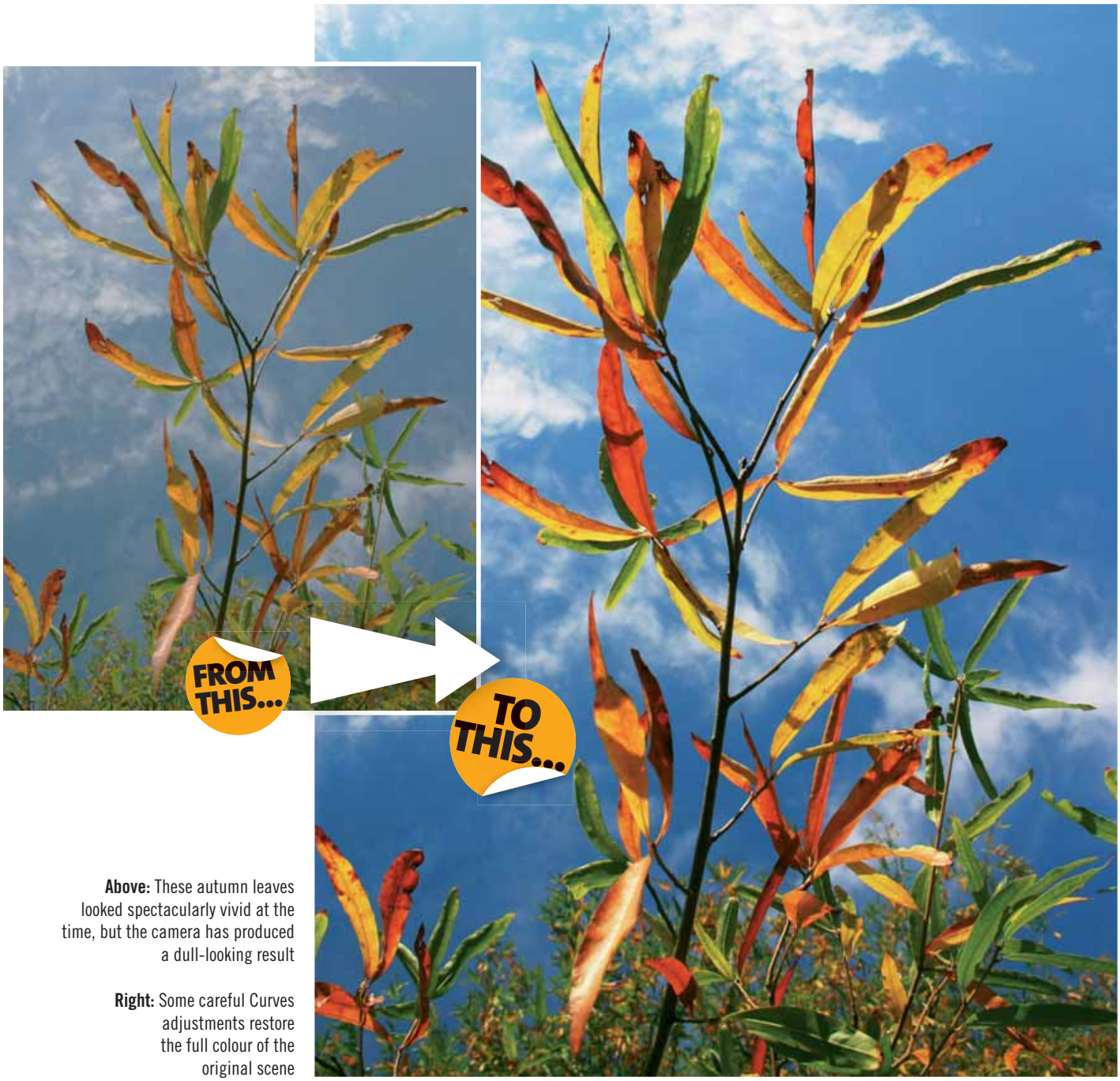
Lightening our image has done nothing to intensify the colours. Indeed, many digital shots can come out overexposed and washed out, and the way to improve them is to drag down on the centre of the curve. This darkens the image and usually improves colours, though here our image still looks very flat.



### 3 Increase *contrast*

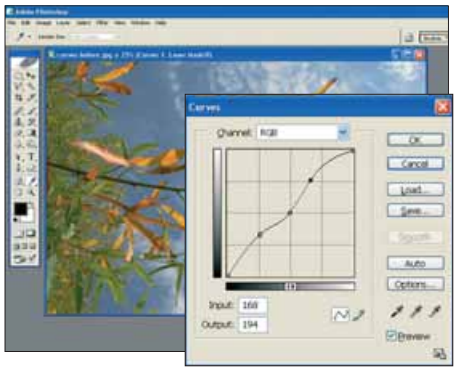
In fact, the problem with our image is not its brightness, but its lack of contrast in the midtones. To fix this, we can apply a classic 'S-shaped' curve. See how the curve is steeper in the midtone section. It flattens out in the shadows and highlights, but these are less important.

YYePG Proudly Presents, Thx for Support



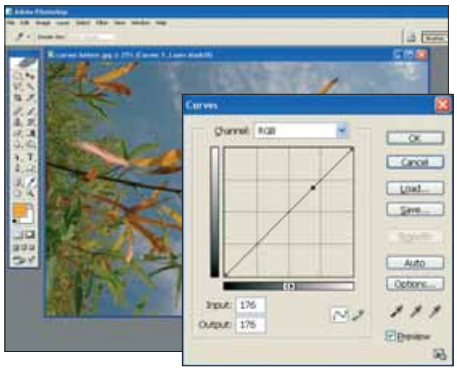

**Above:** These autumn leaves looked spectacularly vivid at the time, but the camera has produced a dull-looking result

**Right:** Some careful Curves adjustments restore the full colour of the original scene



## 4 M-shaped *curve*

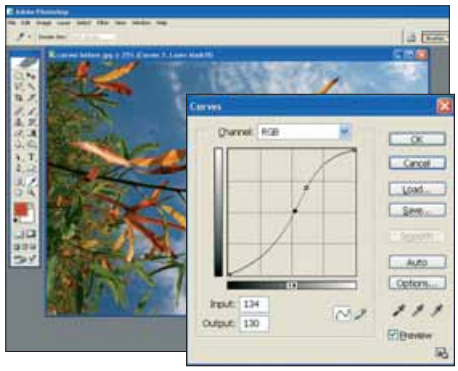
There's one more curve shape you might find useful, and that's the 'M-shaped' curve. You can create this by clicking on the centre of the curve to add a control point, and then dragging upwards on the sections either side. This can boost the impact of dull, underexposed images.



## 5 Localised *contrast*

The secret to fixing our image is careful 'localised' contrast adjustment, for example between the yellow and the browns of the leaves. With the Curves dialogue box open, move the Eyedropper over a representative section of the image and **Ctrl**-click – this adds a control point to the Curve representing that tone.

YYePG Proudly Presents, Thx for Support



## 6 Tweak *points*

We can do the same for an adjacent, darker tone. Now, with the second control point still selected, we can press the down arrow to 'nudge' it bit by bit. This increases the contrast between those two tones. This is the best way to increase contrast in specific areas without distorting the rest of the image.

# Lens *Distortion*

## It's easy to correct two common types of lens distortion

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

**Many compact digital cameras with long zoom ranges suffer from pincushion and barrel distortion problems (see panel far right). Even slight distortion can really spoil landscape and architecture photographs. The distortion effects are at their worst at the extremes of the lens zoom range – at very wide or very long focal lengths.**

Photoshop contains a filter that can be used to help correct these distortion problems in your photos. Called the Spherize filter (Filter > Distort > Spherize) it contains a preview thumbnail and a slider control that adjusts the degree of barrel or pincushion correction that is applied to the picture. Moving the slider to the right balloons the picture and therefore counteracts the effects of pincushioning. Sliding the control to the left contracts the image and reduces barrel distortion.

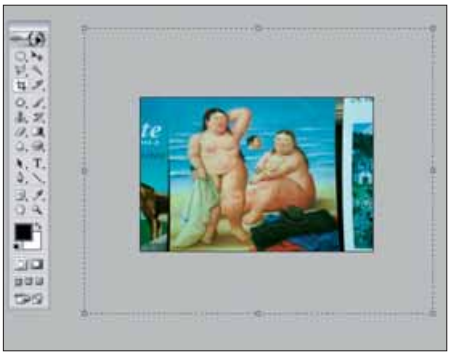
But simply applying this filter to the problem picture will cause some parts of the photo to be left unchanged – the corners – while the rest of the image is 'spherized'. In order to overcome this problem and apply the changes to all the picture, you'll need to add some space around the image before applying the filter. Use the steps below to correct the photos you have in your collection that suffer from lens distortion.

You can help to avoid these problems before you take your pictures. Unless the shooting situation warrants it, don't use extreme wideangle lenses, as these can cause distortion.

## TOP TIPS!

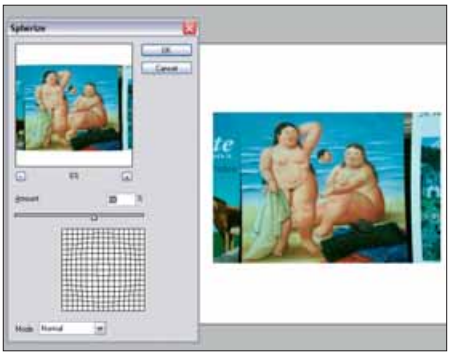
**TAKE A SERIES OF PHOTOS**
**Take a series of pictures of the location at different focal lengths. Make sure that you cover the whole of the zoom range of your lens. Note down the focal lengths you use if your camera doesn't record this as part of the EXIF data saved with the picture file.**

## Correcting *Pincushion Distortion*



### 1 Add *more canvas*

Select the Crop tool and click and drag the marquee so that it covers the whole of the picture. Now click on the marquee corner handles in the top-left and bottom-right and drag these outwards beyond the edge of the picture. Double-click in the centre of the marquee to add the new canvas space.



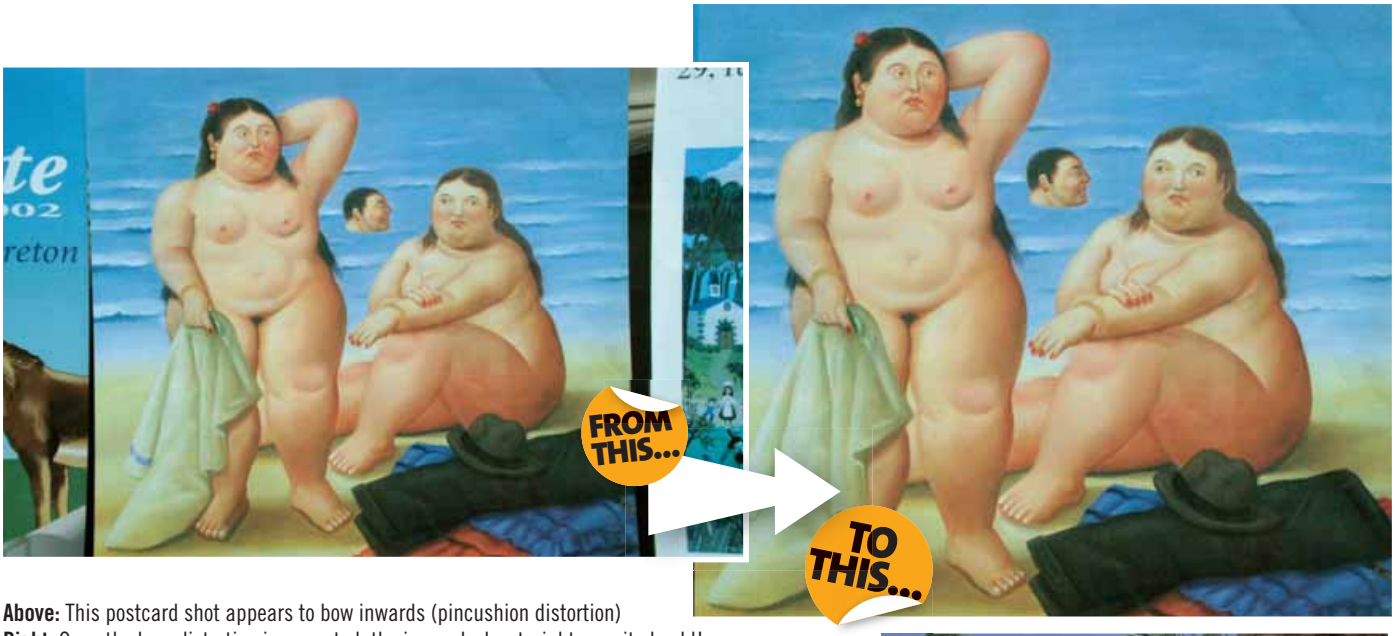
### 2 Remove *pincushion*

Open the Spherize filter (**Filter > Distort > Spherize**) and adjust the magnification of the thumbnail so that the whole image can be seen. Drag the Amount slider to the right to remove the pincushion distortion. Continue the adjustment until the edges of the photo are no longer bent. Click OK to apply.

### 3 Crop *and rotate*

Select the Crop tool and, after drawing the crop marquee around the picture, click outside the marquee and drag to rotate the marquee until the edges of the marquee are parallel to the photo's sides. Double click in the centre of the marquee to crop and rotate the photograph.

YYePG Proudly Presents, Thx for Support




**Above:** This postcard shot appears to bow inwards (pincushion distortion)
**Right:** Once the lens distortion is corrected, the image looks straight – as it should!

## DISTORTION: THE TYPES

**Barrel distortion** is usually associated with images that are photographed with extreme wideangle lenses and is common with wideangle lens attachments that screw onto the front of digital cameras. The characteristics of barrel distortion are:
*• Straight lines that appear near the edge of the frame are bent • The whole image appears to be spherical or curved outward • Objects that are close to the camera appear grossly distorted*

The opposite effect to the barrelling problem are the results that are created with some telephoto lenses that suffer from **pincushion distortion**. In this situation rather than bulging in the middle of the frame :
*•The image seems to recede into the background • Straight lines that appear near the edge of the frame are bent inwards • The whole image appears to be projected onto the inside of a ball (curved inward)*

**Above:** The building and tree suffer from barrel and perspective distortion
**Right:** Corrected with a few simple adjustments

# Correcting *Barrel Distortion*

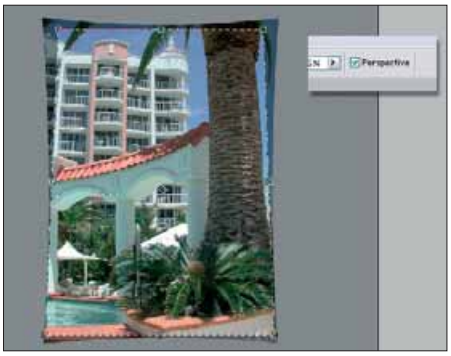
## 1 Add *more canvas*

Select the Crop tool, and click and drag the marquee so that it covers the whole of the picture. Now click on the marquee corner handles in the top-left and bottom-right and drag these outwards beyond the edge of the picture. Double-click in the centre of the marquee to add the new canvas space.

## 2 De-Barrel *picture*

Open the Spherize filter (**Filter > Distort > Spherize**) and adjust the magnification of the thumbnail so that all the image can be seen. Drag the Amount slider to the left to remove the barrel distortion. Continue the adjustment until the ballooning effect is no longer evident.

YYePG Proudly Presents, Thx for Support



## 3 Sort *perspective*

Select the Crop tool, draw the marquee round the picture, and click on the Perspective setting in the tools option bar. Click and drag the top corner handles inwards until they're parallel to building parts that should be vertical. Double click in the centre of the marquee to crop and correct the perspective .

# Dodging & Burning

## Lighten or darken selected areas of your image with these traditional darkroom techniques

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & (MOVIE-CS)**
**LEVEL**
**INTERMEDIATE**

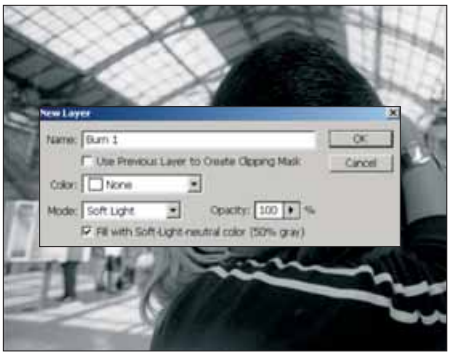
**The versatility and degree of control offered by Photoshop is wide ranging and enables us to manipulate images very efficiently by using tools such as curves and levels. However, there are occasions when even those tools cannot help us to achieve the pre-visualised image and we have to find alternative methods.**

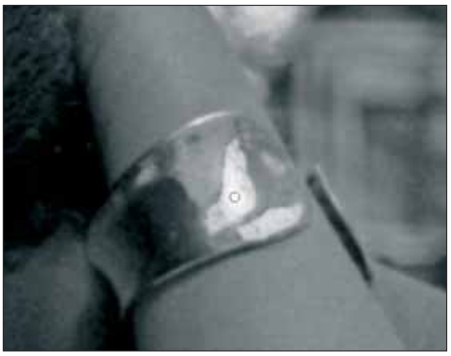
Local tonality control, better known as burning and dodging, can help to transform the mood of a landscape from a grey day into a sombre, stormy one simply by darkening the sky, or help subdue areas of an image that are too bright and detract from the main subject. On the other hand we can lighten deep shadows in a landscape or skin tones in a portrait by applying a little dodging.

Those of us who made black & white prints in the darkroom will be well aware of the black art of burning and dodging: how often have we got it just about right only to ruin the print by giving the sky two stops too much burning in, to end up with a featureless black? Digital burning and dodging holds none of those unwanted surprises, for the method here, using new layers, gives you total control over the process.

On those occasions when you get carried away and apply too much burning or dodging, all is not lost, for you just confine the layer you are working on to Photoshop's trash can, create another new layer and carry on where you left off on the previous good layer. Working in layers it is good sense to spread all your burning and dodging over a few different layers, gradually building up tonality, so that you never get to the point of having to throw away all the work done up to that point and start again from the beginning should you make a mistake and overdo the burning or dodging. The method of burning and dodging described here does not use the burn and dodge tool that is provided in Photoshop – instead, we create a new layer and by applying a tone darker than mid grey you can burn in while a tone lighter than mid grey allows you to dodge.

Very bright highlights are sometimes difficult to deal with, especially when you need to retain the impression of light but at the same time subdue the brightness. A typical example is a very bright cloudless sky that requires an even layer of tone to subdue it. When I have this problem in the darkroom I flash the paper using white light to put a delicate tone into the highlight. The Photoshop equivalent is the gradient tool that allows you to apply just the correct amount of tone that can be applied in one action or it can be gradually built up in several applications.



### 1 Layer *for burning*

Create a new layer **Image > Layer > New** and name it Burn 1. Set the blending mode to soft light and click the box marked 'fill with neutral colour'. Leave the opacity 100%, click OK. Switch off the background layer to see the grey layer just created. Go to the toolbox and ensure foreground colour is set to black when burning. Activate the brush tool and set a suitable brush size.

### 2 Burn *small areas*

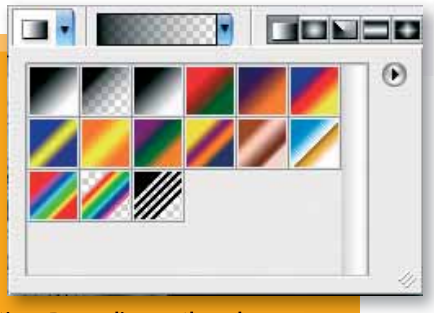
Set the opacity of the brush quite low (5 to 15). You will soon gain confidence and use higher values. To start burning, click the left button on the mouse while dragging the mouse in the direction you wish to burn in. For small highlights such as here on the bracelet use a small brush size of about 10; this allows access into difficult corners without affecting adjacent areas.

YYePG Proudly Presents, Thx for Support

### 3 Layer *for dodging*

Set up a dodging layer in the same way as in step 1, naming it Dodge, but this time make sure that the foreground colour is set to white. Apply the brush strokes in the same way as when burning in. Here, I have used a brush size of 30.

## THE GRADIENT TOOL



**This tool is ideal for applying subtle blocks of tone to difficult highlights such as skies and other bright areas. In the toolbox, click on gradient tool then click on the linear gradient icon on the toolbar at the top of the screen. Always set a low opacity value to start with, and after a few attempts you will learn to recognise the correct value first time. Depending on the value you applied to the gradient and how far beyond the edge of the selection you took the cursor when you click dragged it over the selection and released it, you will have a graded tonality from light to dark across the selected area and the highlight will be subdued.**

**Below:** This image of a lovers' embrace is a little flat and lacks punch

**Right:** The final image has put more focus on the areas that really need it

## 4 Gradient *tool*

Go to the layers palette and click on the create new layer icon. Using the freehand lasso, we selected the board behind the girl's head and applied a 20 to 30 pixel radius. With the gradient tool, click on the linear gradient icon on the toolbar. Set an opacity value 22%. Place the cursor on the outside left edge of the selection, left click drag the cursor to beyond the selection, and release.

## 5 Showing *layers*

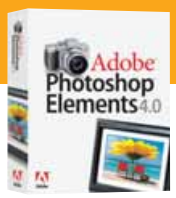
The image below shows the burn and dodge layers without the background. The dark areas are those that have been burned in – note the very dark areas that have been burned in on two layers. The white area shows the extent of the dodging that was carried out on the faces of the couple.

## 6 Final *image*

This is the final completed image. In the image, the contrast and tonality have been adjusted to direct the eye to the kissing couple without losing the feeling of light and space in Brighton railway station.

YYePG Proudly Presents, Thx for Support

**SOFTWARE**
**ADOBE PHOTOSHOP**
**PHOTOSHOP 7.0 , CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**




# Clone *Tool*

## It's easy to remove unwanted parts of your image with this great tool

**Scanning your prints or negatives is a great way to convert existing pictures into digital, but sometimes during the process you pick up a few unwanted dust marks as well as the picture details.**

Or maybe when you photographed your mother you didn't realise that the electricity pole in the background would look like it was protruding from her head in your picture.

Removing or changing these parts of an image is a basic skill needed by all digital photographers and Photoshop Elements contains just the tool to help to eliminate these unwanted areas. Called the Clone Stamp tool (or sometimes the Rubber Stamp tool), the feature selects and samples an area of your picture and then uses these pixels to paint over the offending marks.

It takes a little getting used to, but as your confidence grows, so too will the quality of your repairs and changes. In this example we'll remove the wire fence from the foreground of the picture, using the same tool.

## 1 Clone *stamp*

The Clone Stamp tool samples a selected area and pastes the characteristics of this area over the blemish, so identify the areas in your picture that need repair. Ensure that the image layer you want to copy is selected.

## 2 Similar *tones*

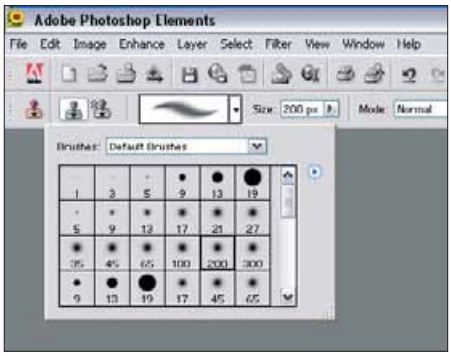
Next, locate areas in the image that are a similar tone, texture and colour as the areas needing to be fixed. It's these areas that the Clone Stamp tool will copy and then use to paint over things such as the fence wires.

## 3 Sample *point*

Select the area to be sampled, or the Sample Point, by holding down the Alt key and clicking the left mouse button when the cursor (now changed to cross hairs) is over a part of the image that suits the area to be repaired.

## 4 Click *to fix*

Move the cursor to the area to be fixed. Click on the blemish and a copy of the sample point area is pasted over the mark. Depending on how well you chose the sample area, the blemish will now be blended into the background seamlessly.


Adobe Photoshop Elements
File Edit Image Enhance Layer Select Filter View Window Help
Size: 200 px
Mode: Normal
Brushes: Default Brushes

## 5 Brush *size*

You may need to reselect your sample point if you find that the colour, tone or texture doesn't match the surrounds of the blemish. You can also change the brush size and hardness. A softer edge helps blend the edge areas of the change with the background.

## 6 Set *sample point*

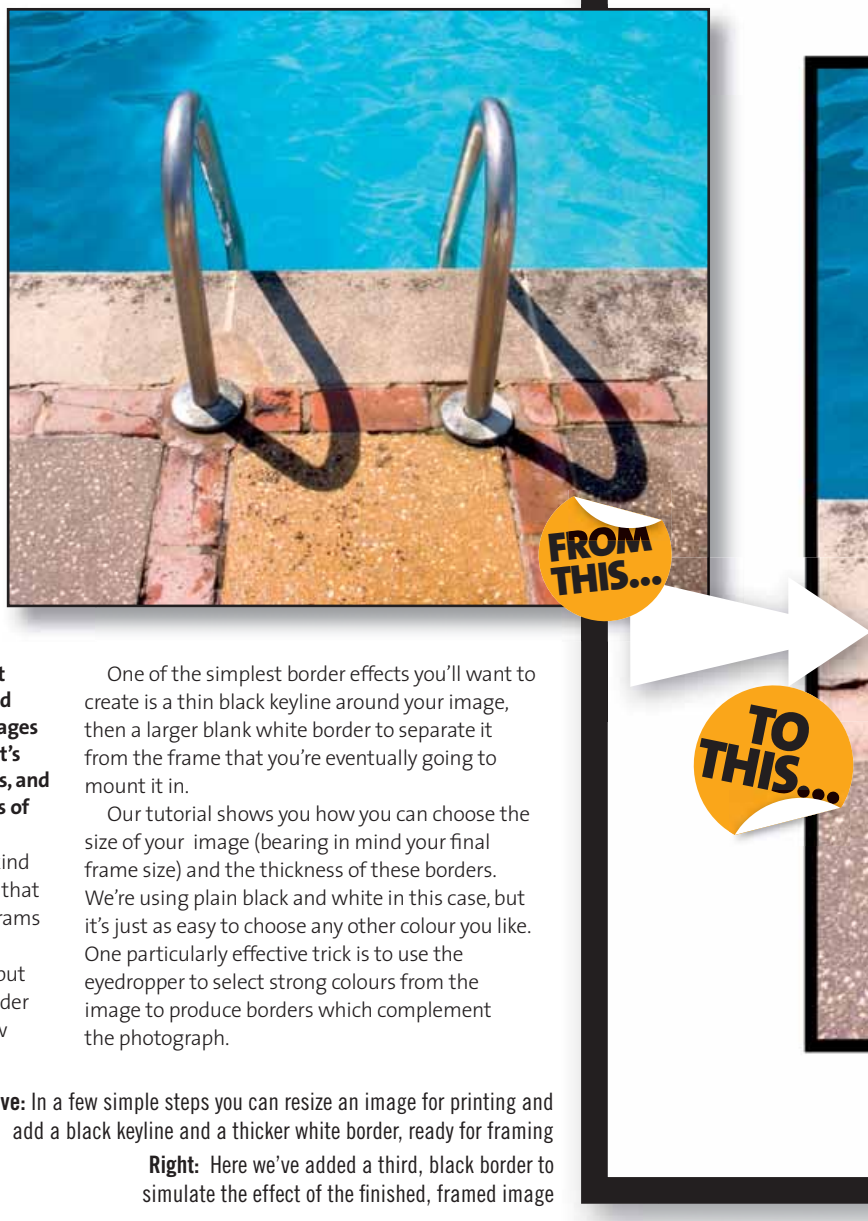
Aligned sets the sample point so that it remains the same distance from the stamped area no matter where you start to click. Non-aligned repositions the sample point back to the original spot each time the mouse is moved and clicked.

YePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

# In the *Frame*

## If a picture's destined for display, all it needs to set it off perfectly is a border. Nothing could be easier!




**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

**If you've investigated Photoshop 7.0's Print with Preview option, you may have noticed that you can add black borders to your images here. However, it's a fairly limited feature that's applied right at the end of the editing process, and there are much better and more flexible ways of adding borders beyond that.**

Photoshop 7.0 doesn't, however, offer any kind of instant frames or borders in the same way that Paint Shop Pro 8 or other image-editing programs do. You can get plug-in border effects – PhotoFrame 2.5 from Extensis, for example – but don't worry, it's possible to produce many border effects manually in Photoshop once you know how, and quickly too.

One of the simplest border effects you'll want to create is a thin black keyline around your image, then a larger blank white border to separate it from the frame that you're eventually going to mount it in.

Our tutorial shows you how you can choose the size of your image (bearing in mind your final frame size) and the thickness of these borders. We're using plain black and white in this case, but it's just as easy to choose any other colour you like. One particularly effective trick is to use the eyedropper to select strong colours from the image to produce borders which complement the photograph.

**Above:** In a few simple steps you can resize an image for printing and add a black keyline and a thicker white border, ready for framing

**Right:** Here we've added a third, black border to simulate the effect of the finished, framed image

### 1 Set *the size*

If you want to add fixed border sizes, it's best to start working in specific image dimensions. Open the Image Size dialogue box and type in your chosen image dimensions. We've chosen 8x6in. (Leave the Resample Image box unchecked unless you want to add or remove pixels to the image.)

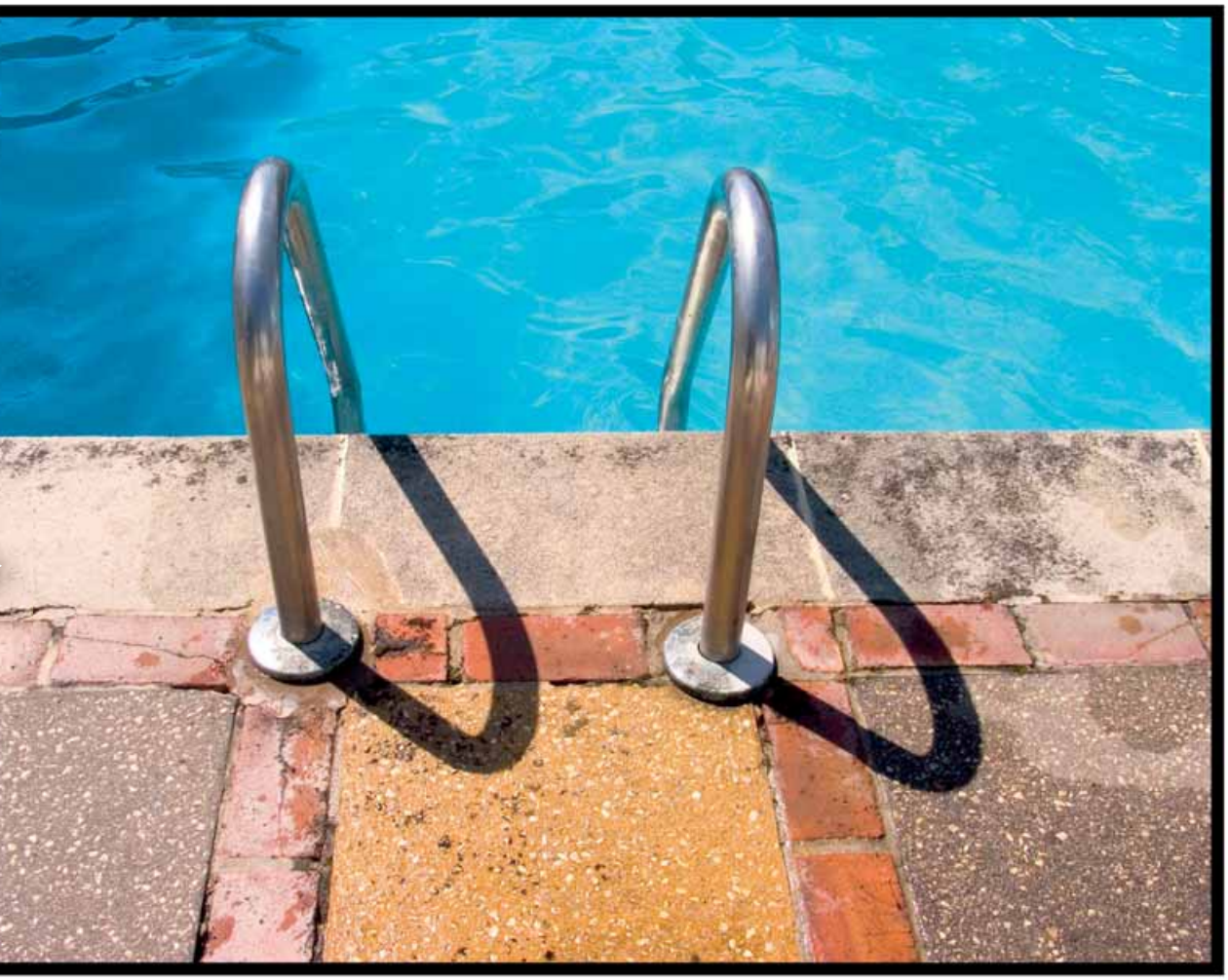
### 2 Reset *to default*

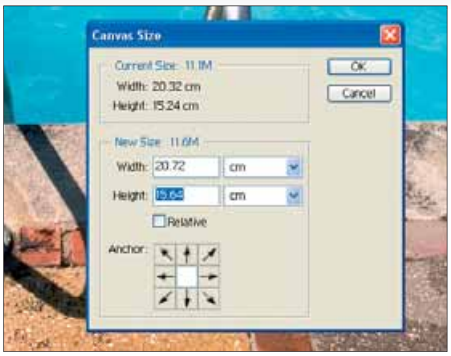
Our method uses Photoshop's background colour to create the border. Reset Photoshop's foreground and background colours to their default black and white by clicking the small button to the bottom left of the foreground/background swatches at the bottom of the tools palette.

### 3 Now *switch them*

At the moment, the background colour is white, so our border would come out white. We want the first border around our image to be a thin black 'keyline', so click the foreground/background 'switch' button to the top right of the swatches – the black and white are reversed.

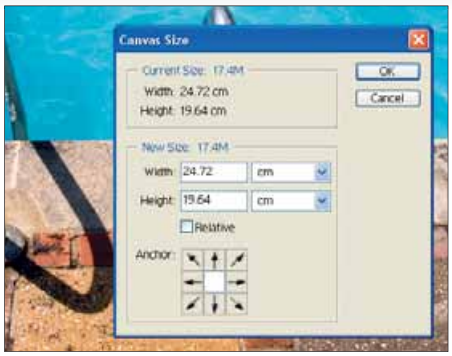
YYePG Proudly Presents, Thx for Support






## 4 Enlarge *canvas*

Go to **Image > Canvas size.** To add a 2mm border, increase the values in the Width and Height fields by 4mm; you will find that 2mm will be added to each side, and 2mm to the top and bottom. What Photoshop is doing is adding 'blank' areas to the edge of the image in the current background colour.




## 5 Switch *them back*

You can see the black keyline added in this shot. To add a larger white border between our image and the frame we're mounting it in, reverse the foreground/background colours as before, re-open the **Image > Canvas size** dialogue box and add larger values (+4cm in this case).

## 6 Alternatives

You can use this method to produce lots of different variations. For example, many images, especially B&W shots, look better with a black surround. Here's another version with three borders – one black, one narrow white 'keyline' and a final black border producing an A4 canvas size.

YYePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

*Make a...*

# Contact *Sheet*

## Keeping track of your many images can be difficult – but it doesn't need to be with these simple contact sheets

**The term contact sheet is a term used in conventional photography in which an entire roll of film is placed on a sheet of photographic paper and exposed in a darkroom, thus creating small reference thumbnails of all the pictures.**

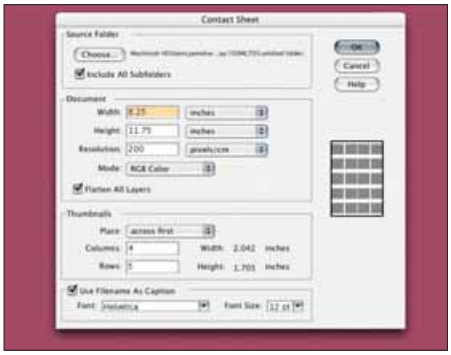
It's easy to create a contact sheet for digital images and is a useful way of looking at all the pictures in a folder without spending hours, and pounds, creating individual prints.

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

## TOP TIPS!

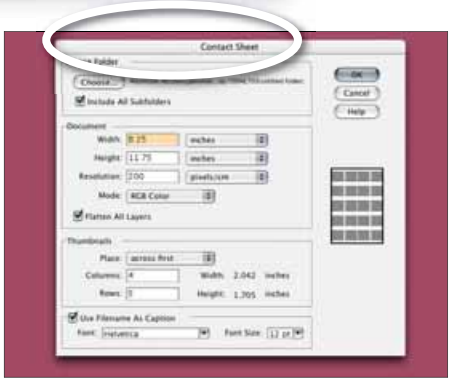
**CLEAR OUT YOUR JUNK**

**Carefully select the images in your folder that you wish to appear on your new contact sheet.**
**Get rid of any unwanted images to save time and paper later**



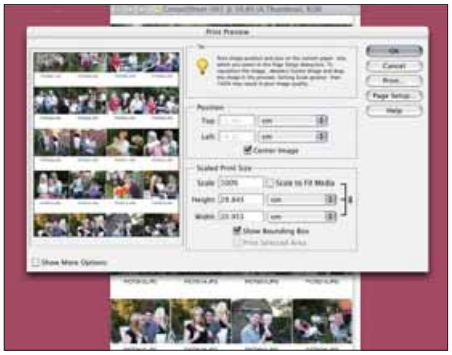
### 1 Set *the size*

From the image menu bar, select **File> Print Layouts and Contact Sheet**. In the dialogue box, select the print size and layout option you require.
Twenty pictures on an A4 sheet is generally a useful layout.



### 2 Source *folder*

Choose a source folder of the images that you wish to print. This could be the entire contents of a memory card for example, or a mixture of images you've chosen already. Click OK. It may take a short while for the images to be gathered.



### 3 Save *the sheet*

Save your contact sheet as an onscreen reference or print it out and show to your friends as a proof, before printing selected images from it.

YYePG Proudly Presents, Thx for Support

# 25 Top Tips

Follow these twenty-five great tips and tricks and achieve fantastic results

## CROPPING FOR SUCCESS

Use the crop tool to add strength and interest to your pictures by adjusting their format and shape. Also, try repositioning the main subject in a different part of the frame as a result of your cropping. In this way you could take a central subject and create a new photograph that positions this focus point asymmetrically. The image below is transformed into an intimate portrait (left) of two little sisters by cropping in tight and discarding the wasted space surrounding them.

SEE PAGE 14

## DECONVERGE VERTICALS

If you have an image of a tower or high building that converges near the top, use Photoshop to straighten them out. Double click on the background layer to convert it to a layer. Use the 'transform' tool from the **Edit>Transform** menu. Use the free transform option to pull out the top sides of the image. When you are happy with the verticals, crop the image to suit.

## CREATE BLACK & WHITE FILM GRAIN

Recreate the dramatic effect of traditional black and white film grain in Photoshop by adding noise to the image. Convert your colour image by using the Channel Mixer, **(Image> Adjustments> Channel Mixer)**. Select the monochrome option and convert it to greyscale. Use the levels to adjust the contrast of the image, give it some punch and make the blacks quite black. To add the grain effect, select from the filter menu, Noise>Add Noise. Keep the setting to gaussian and use the monochromatic option. Adjust the slider to increase the effect.

## CATALOGUE & BACKUP

Okay, this is not the most exciting job on the planet, but just ask yourself 'Would I be upset if my hard drive failed tomorrow and I lost the thousands of images I have stored there?'. If your answer is yes, then you should start to back up those precious pictures today. You can write them directly to CD or DVD or use a backup program to transfer copies to an external drive.

## NO TO AUTO CORRECTION

Many auto correction and enhancement tools in your favourite editing program treat all pictures similarly. Because subjects such as snow-covered mountains contain an unusual amount of lightly toned and coloured details, it is best to ignore such features as auto colour and auto levels. Instead, use tools with more manual control such as levels or curves.

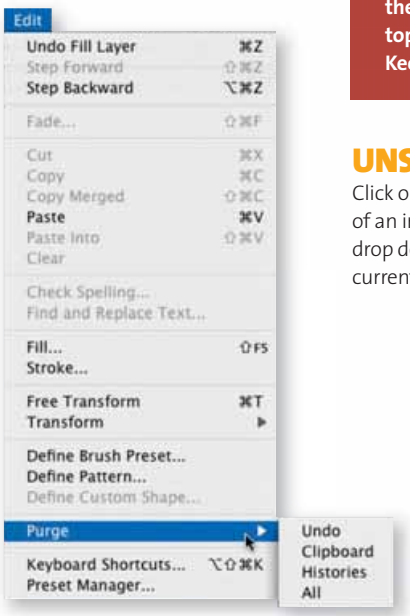
YYePG Proudly Presents, Thx for Support

## TEXT RESIZING

When using type in Photoshop, you can resize and manipulate, add layer effects such as drop shadow and bevels and still be able to re-type any corrections.

## OUT OF MEMORY? TRY THIS

If you keep getting an out of memory warning on your PC when manipulating high-res images in Photoshop, try to decrease the history states in the preferences. You can also 'purge' the memory by going to **Edit > Purge > All**. This will erase any history or information in the clipboard, so be sure before you select this option.



SKY IMAGE

LAND IMAGE

## CHANGE A SKY

**If your landscape lacks a dramatic sky, but you have one from another image, combine them both to get that perfect image. Use Photoshop to add the new sky as a layer over the top of the original landscape. Use the eraser tool to remove the unwanted foreground. Keep the brush large with a soft edge.**

## UNSURE OF YOUR TOOLS?

Click on the small arrow at the bottom left side of an image window. Choose 'tools' from the drop down menu. This will then dislplay the current tool in use.

## SHARPEN YOUR IMAGES

Use the unsharp mask filter in Photoshop to sharpen up your soft images. This doesn't mean you can correct an out of focus image, but it can help bring out detail such as hair and highlights. Go to **Filter > Sharpen > Unsharp Mask**. Be subtle and don't apply too much or it will look obvious.

SEE PAGE 18

## LOSE THOSE PALETTES

All those Photoshop palettes can take up a lot of valuable monitor space – if you want to get rid of them all, just press Shift+Tab to hide them. The same command will bring them back. The Menu Bar, the Options Bar and the Toolbox will all still be visible.

## JUST SHRINK THEM

Just double-click the palette's name tab and it'll minimise down to the tab itself. Double-click it again to get the palette back.

## VIEW YOUR IMAGES UNCLUTTERED

Hit the F key twice in Photoshop to view your image uncluttered and on a black background. This can help assess your work without the messy tabs and desktop.

## FLOATING MENU BAR

The Options bar needn't be docked to the top of your work area – you can dock it to the bottom of your screen or just make it float. To dock it at the bottom, click on the little tab on the far left side of the bar, drag it where you want it and it'll snap into place. To let it float, click the tab and drag it away. You can even hide it altogether by choosing Options from the Window menu. Get it back by double-clicking on any too

## VIEW YOUR IMAGES AT SPEED

In Photoshop, hold down the control key and press tab to cycle through a selection of open images on your PC. This is a quicker way of viewing your images.

YYePG Proudly Presents, Thx for Support

## MAKE A CONTACT SHEET

SEE PAGE 34

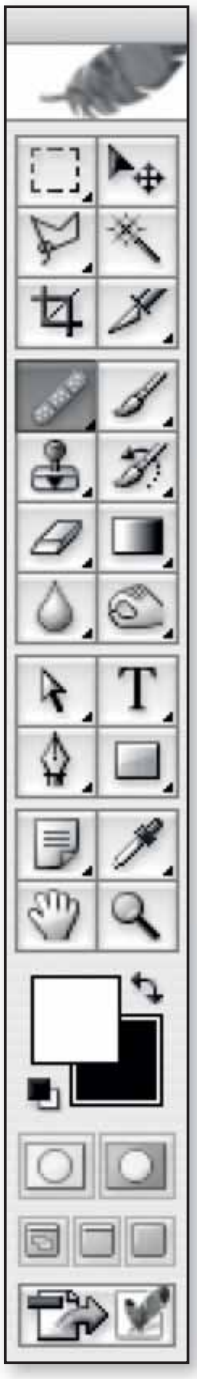
You can quickly end up with hundreds of images and lose track of what they're of. Making thumbnail 'contact sheet' prints of your files enables you to see at a glance what you have on file, without even having to switch on the PC.

## MOVE THROUGH TOOLS

Back when there were fewer tools in Photoshop all you had to do to move through a set of tools was to press the keyboard shortcut to toggle through the options, for example, repeatedly hitting P to toggle through the Pen tools. But now there are more, Photoshop has added Shift to do the same job – but you can go back to the old way. Just go to **Preferences>General** and uncheck the box for Use Shift Key for Tool Switch.

## WHICH TOOL?

It takes a little time to get used to what's where in Photoshop and if you're not sure which tool you're using, just click-and-hold on the right-facing triangle toward the bottom left-hand side of your image and choose Current Tool from the pop-up menu. The name of the currently selected tool will appear in the information box in the left-hand side of your document window for quick reference.



## TOGGLING ON THE TOOLBOX

Many of the tools in the Toolbox have additional flyout menu options (indicated by a black triangle by the tool). To toggle through these options quickly, just Alt-click on the tool and each time you do, the next option on the list will come to the front.

## GET RID OF LAYERS

Totally delete a layer quickly by holding down Alt and clicking on the Trash icon at the bottom of the Layers palette.

## STEAL COLOUR FROM ANYWHERE

One of the great new features of Photoshop 7.0 is the ability to sample colour from anywhere – including other applications, Photoshop's Toolbox and menu bars, and even your computer's desktop! Just make sure you click into your image first and then take your eyedropper wherever you want.

## DON'T SCROLL TO ZOOM

If you're zoomed in on an image, using the scroll bars to move around can be really frustrating and inaccurate. Just access the Hand tool by pressing the Spacebar to temporarily switch for easy navigation.

## ZOOM IN AND OUT FAST

Zooming in using the Alt key only zooms in one step at a time. Save time by pressing Ctrl and the plus sign to quickly zoom in and Ctrl minus to zoom out.

## MOVE AT ANY TIME

Toggle to the Move tool at any time by holding down the Ctrl key. When you release it, you'll be taken back to the original tool you were using.

## DON'T CANCEL – RESET

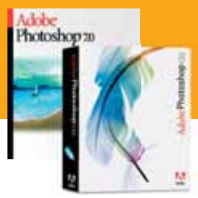
If you're making changes to settings in a dialogue box and you decide you don't like them, you press cancel, then re-open the dialogue box to try again. Save time by holding down the Alt key – the Cancel button is now transformed into Reset which sets the values as if you hadn't made any changes.

YYePG Proudly Presents, Thx for Support

# Soft Focus

## Soft focus effects to enhance mood shouldn't be confused with out of focus

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**BEGINNER**



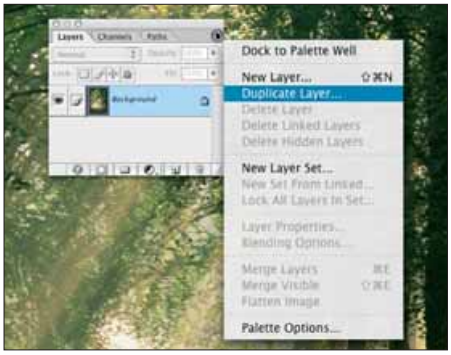

**It's common to see advertising and fashion images that have been shot using a soft focus filter, but it's not often used in landscape shots as the main aim of this type of photography is usually sharpness.**

In certain circumstances, however, the mood of a landscape image can also be enhanced by applying a soft focus effect, especially when there's a certain amount of backlighting or streaming sunshine.

As with most digital imaging manipulations there are several ways of achieving soft focus, and as always we're going to show you a non-destructive method.

**TOP TIPS!**

**MAKE AN ACTION**
If you have multiple images to apply this effect to, you can save the procedure as an Action to make the job easier and quicker




## 1 Overlay *blend*

We're going to use a very simple effect using Overlay blend mode. This allows us to make various image adjustments, but will leave the original image intact. Go to the Layers palette and click on **Duplicate Layer**.

## 2 Duplicate *layer*

Make sure you have the duplicate layer selected, then at the top of the layer palette click on the Layer blend mode button and select **Overlay mode**. Set the opacity to 40%. We're now ready to apply some blur.

YYePG Proudly Presents, Thx for Support

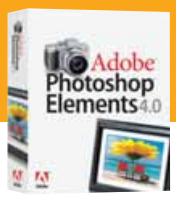
## 3 Blur *filter*

Go to **Filter > Blur > Gaussian Blur** and the dialogue box will appear. Tick the Preview button and you'll be able to see the effects in real time. In this case apply a figure of 10 pixels, but this may vary from image to image. Save your results.

# Going *Wide*

Panoramic photos can look stunning and they're easy to do

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**INTERMEDIATE**




**Creating wide-format pictures is easier than you may think. There's no need for specialised wide-format equipment – all you need is your camera, a tripod, some carefully photographed sequences of images and a little time spent with your image-editing program to start producing amazing panorama pictures.**

## SHOOTING

Creating great panoramas is essentially a two-step process: 'shooting and producing'. The first part is all about accurately photographing the series of pictures or 'source images' that will be joined together. It is not just a matter of ensuring even overlap of the photos (though this is important). The images must have the same perspective and similar exposure, colour balance and focus.

Positioning the camera to shoot evenly spaced photos on a level plane helps joining programs such as Photomerge calculate a more precise stitch. Although you can manually support your camera to shoot photos for a panorama, it is helpful to use a tripod for capturing the sequence, and even better to use a tripod head that uses the lens's 'nodal point' as the pivot when you are rotating the camera.

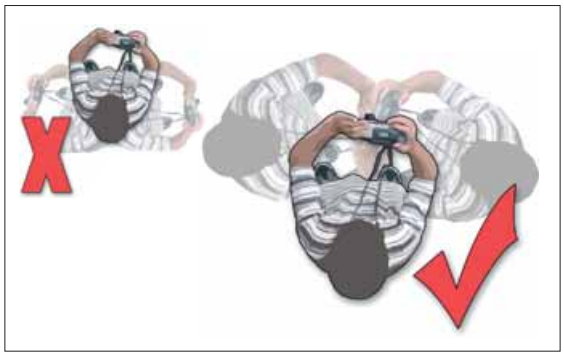
Best results are obtained when the camera is perfectly level. If it isn't, you'll need to trim the final stitched panorama. This can be easily achieved with the Elements crop tool. Don't panic if you don't have a tripod, just try rotating the camera around the lens rather than pivoting around your body. Also if you're shooting 'hand held' use longer focal lengths rather than wideangle settings as this will help with stitching later.

When photographing the series ensure that the pictures overlap by 20% to 50%. The program uses the overlapping detail to help match and blend the images together. Unlike when you are shooting individual images, it is important to ensure consistent exposure, colour and focus when capturing your panorama images. Changes between sequential shots will be noticeable in the final wide-vista photograph.

To help ensure consistency from shot to shot, adjust the following settings on your camera before starting.

Focus: Switch the camera to manual focus so that what's sharp in your pictures remains the same for all images.

Exposure: Meter readings can change dramatically from shot to shot, so it's important so set the camera's exposure



## 1 Select *location*

When you are shooting the source images, consider composition, position of camera, exposure and point of view as you would with any other picture. Look through the viewfinder and sweep the scene with the camera, previsualising the stitched panorama ensuring it contains all the detail you want and nothing that should be left out.

## 2 Camera *position*

If shooting hand-held, pivot around the camera rather than your own waist. Though not essential, it's best to use a tripod. Many professionals take the set-up one step further by using a special panorama tripod head which positions the camera and lens combination directly over the tripod's pivot point. (See above right)

YYePG Proudly Presents, Thx for Support

mode to manual.

White balance: If your camera has auto white balance then this too should be adjusted manually to suit the predominant light. Doing this will help to ensure consistency of colour throughout the whole of the picture sequence.

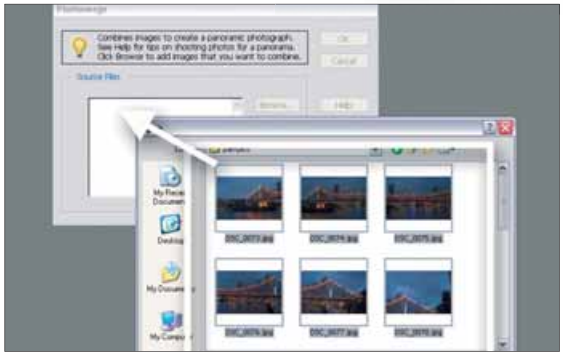
Zoom: Resist the temptation to change the zoom settings while in the middle of taking the sequence of pictures. Zoom changes will cause problems when it comes time to stitch the pictures as the edge details won't match.

If you own a camera with a special Panorama shooting mode, select that. This feature ghosts a portion of the previous image on the LCD screen at the back of the camera allowing you to match up the overlapping section of the scene precisely. This feature also fixes the exposure, focus, white balance and contrast for the whole of the shooting sequence. >>

## Featured Equipment

**TRIPOD HEADS**
Companies such as Kaidan (www.kaidan.com) and Manfrotto (www.manfrotto.com) manufacture special panoramic tripod heads designed to pivot your camera over the lens's nodal point when photographing a source sequence. These heads also contain regular click-stops which produce even overlaps between successive pictures.

**CAMERAS**
Some models (eg the Canon A95 and Nikon Coolpix 4500) offer a special panorama mode that ghosts the previous shot on the LCD screen so you can line up the next shot accurately. This saves the expense of purchasing a panoramic tripod head.



## 3 Camera set up

Adjust the zoom and focus to suit both near and far subjects in the scene. Turn off AF and switch to manual exposure and white balance. Attach a remote cable or use the self-timer to trip the shutter. Take the first shot, then rotate the camera, ensuring an even overlap for the next photo. Continue until the whole sequence is captured.

## 4 Load source images

In the Standard Editor workspace select **File>New> Photomerge Panorama**. The Photomerge dialogue will appear. Press the Browse button and then locate and select the source pictures from the folder where they're stored. Click Open in the Browse window to transfer the styles back to the Photomerge dialogue. Press OK.

YYePG Proudly Presents, Thx for Support

## EDITING

After shooting, load the source images into the Photomerge feature in Elements (**File > New > Create Photomerge Panorama**). This utility is included free within Elements and is Adobe's version of the stitching technology. The feature uses an automated process that acquires, positions and matches edge details of separate images to make a new single panoramic picture. Photoshop CS users might find the feature very familiar, as a version of the stitching utility is provided in this latest release.

When launching Photomerge you must first locate and load your source files using the Browse button and dialogue. After loading the files click OK to commence loading, matching and stitching the image pieces. As part of the opening process RAW and 16-bit files will be converted to 8 bits per channel. Photomerge is generally able to correctly identify the overlapping images and blend them in the editing workspace. In some instances, a few of the source files might not be able to be automatically placed and Elements will display a pop-up dialogue telling you this has occurred. These pictures can be manually moved into position later.

The Select Image tool is used to move source images around the composition or to place unmatched pieces. Click and drag any unmatched parts from the top of the screen onto the composition. For finer control use the Rotate Image tool to make adjustments to the orientation of selected image parts.

The Use Perspective option, together with the Set Vanishing Point tool, manipulates the perspective of your panorama. The first image that is positioned in the Composition area is the base image (light green border), which determines the perspective of all other image parts (red border). To change the base image, click on another image part with the Set Vanishing Point tool. To correct some of the 'bow tie'-like distortion that can occur when using these tools, check the Cylindrical Mapping option in the Composition area of the dialogue. The Advanced Blending feature can be used to help minimise colour inconsistencies or exposure differences between sequential images. You can't use the perspective correction tools for images with an angle of view greater than 120°, so ensure that these options are turned off.

After making the final adjustments, the panorama can be completed by clicking the OK button in the Photomerge dialogue box. This action creates your completed panorama, which you can then edit and enhance just like any other photograph.

### 5 Photomerge *opens*

Next the Photomerge work space will open and the feature will attempt to organise and blend your overlapping pictures automatically. In most cases if your shooting has been accurate all images will be correctly positioned. Pictures that can't be placed will be moved to the slide table area at the top of the screen.

### 6 Manually *position*

Ensure that the Snap to Image feature is selected (right-hand side of workspace) and then manually position unmatched pieces by dragging them from the top of the screen into the work space. For slightly skewed images click on the Rotate Image tool located in the toolbox (top-left) and drag the source image to pivot it into position.

### 7 Advanced *blending*

With all the source images positioned select the Advanced Blending option to help to minimise exposure differences between successive photos. If the vista covers less than 120 degrees then you can also select the Perspective option which uses a single photo as a base image and adjusts the perspective of the other pictures to fit.

### 8 Final *fine-tuning*

When Photomerge has finished you'll be left with a single layer document. Panoramas created with the perspective option selected will resemble a bow-tie shape. Use the Crop tool to remove unwanted edges and the Clone stamp tool to fill in any gaps. Fine-tune the final image with standard contrast and colour enhancements.

YYePG Proudly Presents, Thx for Support

# Add File *Info*

Add hidden information to images so they can be sorted and filed

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**BEGINNER**

**So you've been away on your travels, taken more pictures than you can shake a tripod at and you are now back home, ready to sort out all the different images.**

Organising your images can be pretty daunting at first sight. But with the help of the File Info options in Photoshop, you can add searchable key words, enter dates and times and even locations and camera specs. File information – also called metadata – is important in all types of publishing.

In Windows and Mac OS, you can add file information to files saved in Photoshop, Large Document Format (PSB), TIFF, JPEG, EPS, and PDF formats. In Mac OS, you can also add file information to files in other Photoshop-supported formats except GIF. The information you add is embedded in the file using XMP (eXtensible Metadata Platform).

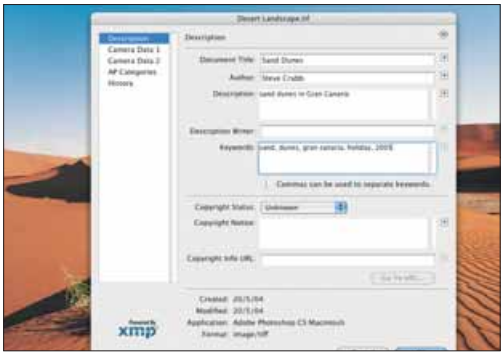
## EXIF DATA

When you take a photograph with a digital camera, you will automatically be saving certain camera data within the image file. This is called EXIF (Exchangeable Image File) data.

However, you must be aware that this information may be lost after any Photoshop enhancements. As a course of standard practice, ensure that you copy the whole image folder first, because this is the best way to retain any important information.

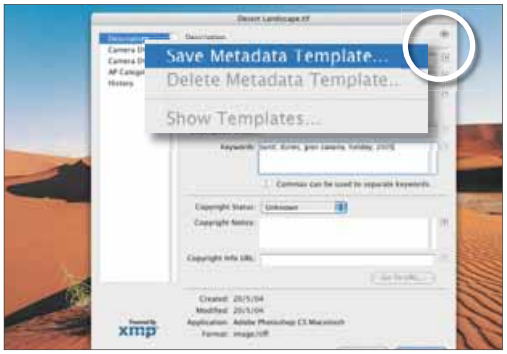
## 1 Copy *images*

Back up the whole folder of images onto a portable or external hard drive or CD/DVD. This may seem obvious, but backing up original files is essential for a lot of reasons. In this tutorial, the main reason we will copy the originals is because we don't want to lose the original EXIF data after any image corrections.



## 2 File *info*

With your image open, you need to select the File Info option from the menu bar (**File > File Info**). This will bring up the File Info palette. On the left of the palette are the input field options. Select each one of these to access the description, camera data, AP Categories and the history.




## 3 Enter & *save data*

Enter the desired data in your chosen fields (eg image title, description.) You can save this file or save it as a template if you want to repeat the same details into other images. Click the triangle icon at the top of the File Info dialogue, and choose Save Metadata Template. Enter a template name, and click Save.

## 4 Import *file info*

In order to import a file info template, you need to open your new image and select File Info. Click the triangle icon at the top of the File Info dialogue box, and choose a template name from the top section of the pop-up menu. Click OK and save. The file info will have copied over to the new image.

YYePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

# Convert Colour *To Black & White*

How would your colour images look in marvellous mono? We show you how to make the conversion

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

**The options available in Photoshop has made it possible for many photographers, who may have concentrated on colour only, to start producing black & white prints.**

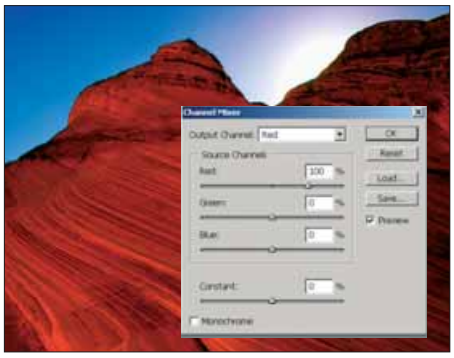
Colour originals, whether transparency, negative or digital capture are all excellent starting points from which to make black & white digital prints. However, the question we have to ask is 'what is the best way to convert from colour to black & white?' Photoshop offers a number of different methods; desaturate, greyscale conversion and lab colour are but a few available and they all have their supporters. Many photographers favour none of them, for the simple reason that you have to accept the default result the software produces. Instead they prefer Channel Mixer because this method allows them the option to manipulate the image at the conversion stage, giving them a bit more control and a few more creative possibilities.

The use of filters in traditional black & white photography provides us with the means to change the appearance of the image we are photographing. We have a similar opportunity in digital image making, by using the Red, Green and Blue sliders when using the Channel Mixer method of conversion. In addition to the extra control you have when using this method of conversion, you still have the option to further manipulate the image in Photoshop, so it does make a lot of sense to use Channel Mixer to convert from a colour original to black & white.

## CHANNEL MIXER

To convert using Channel Mixer, access the Layers Palette and create a new fill or adjustment layer, and the Channel Mixer box will appear on the screen. Click on the monochrome box in the bottom left hand corner to convert the image to black & white. There are three source channels, red, green and blue, with the red channel set at 100% and the others at 0%. This is the default setting. The constant channel is also set to 0%. There is a widely held view that when using this method of conversion the total value of the three source channels should be 100%, otherwise information will be lost resulting in blocked shadows and burnt out highlights. While this can happen, there are circumstances where this is not the case or where you might prefer total black or white in part of the final image for aesthetic purposes. Certainly we should not ignore the 100% rule, for it does make good sense, but we should first use our judgement to arrive at the image we visualise. >>

YYePG Proudly Presents, Thx for Support



## 1 Make *a start*

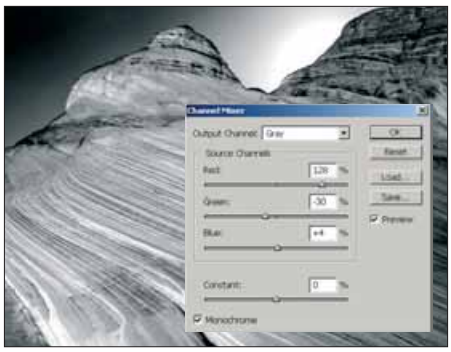
Open your image. Create an Adjustment Layer in the layers palette by selecting the small icon at the bottom. Choose Channel Mixer from the menu items. Click on the monochrome box, bottom left hand corner to convert the image to b&w. Default setting of the source channels is red 100% and the others 0%. The constant channel is also 0%.

## 2 Straight *conversion*

This (above) is the result of a straight conversion where no manipulation has been applied, and is in my opinion a much better starting point than any of the other methods available. Compare it with the greyscale conversion right, to see the improved contrast.

## Greyscale *conversion*

The greyscale conversion shows a distinct lack of contrast and separation in the detail in the rock but it is fair to say that this can be adjusted using various contrast controls available in Photoshop. Compare this conversion with the variety available in Channel Mixer to see why I prefer the latter method.



## 3 Standard *route*

Increasing the value of the red lightens the rock and increases contrast to produce the tonal range and contrast that I would probably have used for a traditional print made in the darkroom. Change R to +128%, G to –30%, and B to +4%. Note that the source channel values add up to +102.

## 4 White *sky*

Since the original sky was blue, increasing the B value, in this case, to +120%, will reduce it to pure white. This prepares the file for further work in Photoshop, such as adding sky with clouds. Changing the R (+50) and G (+174) values produced a tonality and contrast that I felt would compliment the final image I had in mind.

## 5 Black *sky*

I felt that a black sky would work with this image so I took out blue and added red to darken the sky and used the green source channel to restore a good tonality in the curving rock. My source channel values add up to –112, with R +136%, G –92%, and B –156%.

# Scanning *Black and White*

Scanning a black & white or colour negative, or a colour transparency, is a key stage in making a quality black & white digital print.

I compare the process to exposing and developing a negative in traditional wet photography. Drum scanning is generally considered to give the highest quality but is very expensive. Several good quality 35mm and medium format negative scanners are available reasonably priced but not suitable for large-format negs so the best alternative is a flatbed scanner. As I use 5x4in cameras as well as 35mm and 6x4.5in, I use the Epson Perfection 3200. Here's how to use your scanner to obtain maximum information from the scan to make fine black & white digital prints.

First, ensure the scanner's glass platen is clean. I use the canned air from the darkroom to blow off dust and hairs and only occasionally wipe with a duster for fear of scratching the glass. Hold the negative as flat as possible. For medium format I use Umax neg carriers. For 35mm and 5x4in I use the carriers supplied with the scanner. Never place the neg straight on to the glass, as you may get newton rings.

YYePG Proudly Presents, Thx for Support

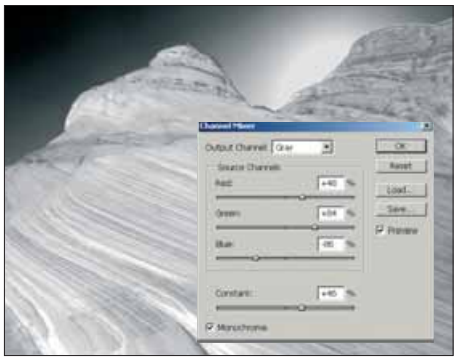
## Step *One*

I usually scan in 16-bit grayscale and set the resolution to a value divisible by 300. I used 2400 dpi and for my example I left the target size the same as the original 35mm negative: 1.38 x 0.92 inches. Start the scan by clicking on preview.

Crop the area of the negative that you want to scan and click on zoom. You should see that the software shows the image size, 1.38 x 0.92 inches, the pixel size 3304 x 2219 and the file size of 13.98MB.

## 6 Constant *control*

The constant control darkens or lightens the image in a linear gradient. It's useful when you have arrived at a tonal relationship you like but would prefer the whole image to be lighter or darker. Use R+136%, G+30%, B–40%, with constant -30%. In this example, the contrast has also been increased in the darkening process.



## 7 Lighten *image*

This high key interpretation was created using the constant control to lighten the whole image. The constant control always retains the tonal relationship you have arrived at. Use a red value of +48%, a green value of +80% and blue -86, and then a constant control value of +46%, to get the result here.

# TOP CONVERSION TIPS!

### RGB SOURCE CHANNELS

Use the R G B source channels as filters and remember that to increase the value will lighten and to decrease will darken: for example, increase red will lighten red; decrease red will darken red.

### GO FOR BOLD

There is an advantage in working from colour originals that have strong red, green or blue areas.

### PLANNING AHEAD

The channel mixer conversion method provides a very good foundation for further adjustments in Photoshop.

### LIGHTENING & DARKENING

Try making the image darker than you want it using the source channel sliders before applying the constant control to lighten it; and do the opposite when you want to darken it. I have found that this gives me a little more control when dealing with bright highlights when lightening, and dark shadows when darkening.

### 16 BIT

If possible scan at 16 bit, as this will increase the amount of information in the scan. It is preferable to do this even though all versions of Photoshop up to 7 have limited facilities for working with tools on the image. Photoshop CS offers improved facilities when working with 16-bit scans.

### SIMPLE CALCULATIONS

Scan at the highest resolution possible where the value is divisible by 300 so that you can increase the size of the image by using simple maths.

### FOR POSTER SIZE

If you plan to make a very large print, scale the image and use a lower dpi to produce the file size and consequently the quality required. This is particularly relevant when working with 35mm or even medium-format negatives.

## Step *Two*

In your unadjusted scan, note the position of the sliders on both the input and output. To adjust the contrast and tonality of the image prior to the final scan, these sliders can be moved either way (see images above right). For input move the sliders to the right to darken; move sliders to the left to lighten. For output, move sliders to the right to lighten; move the sliders to the left to darken.

## Step *Three*

Compare the contrast and tonality of this preview with your unadjusted scan earlier, and note how the changes were made using the sliders on both input and output. You can set the black and white point of the image by positioning the relative input slider to each end of the histogram and adjust the mid tones by moving the grey slider. Or you can adjust the tones that you think best suits the image.

## Step *Four*

Because I scanned the 35mm negative at original size, the final print will be 1.377 x .0925in, which is clearly too small. Resizing the image, though, can be carried out in Photoshop. Go to **Image>Image Size**, then uncheck the resample image box and change the dpi value in the resolution box. I scanned my image at 2400 dpi. Changing the dpi to 300 increases the final image size to 11 x 7in without reducing the pixels value. If the resample image box had been checked, the final pixel values would have been lowered and therefore affected the quality of the print.

YYePG Proudly Presents, Thx for Support

In association with Nikon

**SPECIAL OFFER**
for overseas readers
**ONLY £199**
*Usual overseas rate £299. Offer valid until 15 July 2006. Please quote offer code 'Zinio' when placing your order

What Digital Camera SPI
SCHOOL OF PHOTOGRAPHIC IMAGING

# Introduction To Digital Imaging

## Home Study Course for Photographers

### We will teach you how to master the fundamental skills of digital imaging easily

**Getting the best from your digital camera is not difficult but, like anything else, there is a certain amount of learning that needs to be done first.**

That's why we're launching the all-new Introduction to Digital Imaging for Photographers Home Study Course.

Written by award-winning writer and photographer, Damien Demolder, the course deals with the issues, tools and skills you need to understand and become familiar with, if you are to produce high-quality digital images.

The course is designed for anyone who has recently made the move to digital photography, or for those who have been shooting with a digital camera for some time, and want to learn more about controlling their images.

Among other skills, you will learn how to set-up your camera, the intricacies of processing your pictures, retouching, saving, archiving and how to turn them into top-quality prints.

**PREREQUISITES**

The course is aimed at anyone not expert in digital photography, although some experience in photography (film or digital) is preferred. You will obviously need a digital camera and some form of imaging software.

YYePG Proudly Presents, Thx for Support

# WHAT DIGITAL CAMERA The Course

## What is a *Digital Image?*

Learn how images are made and saved, which compression and file types to use when, and why sensor size matters

**LEARN:**

- **Colour** *Control*
- **Contrast** *Control*
- **Basic** *Retouching*
- **Image** *Sharpening*
- **Black & White** *Techniques*
- **Perfect** *Printing Skills*

## Your course includes:

- Course workbook in CD-Rom form
- Personal critique of each module by your own tutor
- Access to the members-only Home Study Course online Forum
- **50% discount** on WDC subscription(UK only)
- **20% OFF** digital print orders at PhotoBox, which provides a high-quality photographic print service plus free storage on its website. **www.photobox.co.uk**

WHAT DIGITAL CAMERA

PhotoBox
Perfect Pictures Posted Pronto

- **10% OFF** Jessops-branded products and all inkjet paper and cartridges.* Includes Jessops, Centon, IQ Video, Portaflash, Primefilm and Raynox. **www.jessops.com**
- A pack of 40 sheets of Fujifilm Multijet™ Premium glossy inkjet paper, ideal for framing and display. **www.fujifilm.co.uk**
- We also have an exclusive deal with Adobe offering all students the chance to buy Adobe Photoshop CS2 at the special rate of around £299.95. *That's a saving of almost £300.* **www.adobe.co.uk**

JESSOPS

FUJIFILM

To enrol or to obtain further details, email **APDiploma@ipcmedia.com**

or call **020 7261 6501**

**All this for only £199**

*Usual overseas rate £299.
Offer valid until 15 July 2006. Please quote offer code 'Zinio' when placing your order

**IN ASSOCIATION WITH WWW.NIKON.CO.UK**

---

SPI

*Please tick as appropriate:*

☐ Yes, I would like to enrol now on the Digital Imaging Home Study Course

☐ Please send me more details on the course

The cost of the course is £199. Overseas fees available on request.
To enrol or simply to find out more information, send this coupon to:
**The School of Photographic Imaging Administrator, Room 0417, IPC Media, King's Reach Tower, Stamford Street, London, SE1 9LS**

## HOW TO PAY (UK rates)

**By Cheque/postal order:**
I enclose a cheque/postal order payable to IPC Media for £199.00 ☐

**By credit card:**
Please debit £199.00 from my

AMEX ☐ VISA ☐ MASTERCARD ☐

Card number ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Issue number ☐☐

Start date ☐☐☐☐ Expiry Date ☐☐☐☐

Signature .....

Mr/Mrs/Miss/Ms: _____ Name: _____

Address: _____

_____

_____

_____ Postcode: _____

Daytime telephone number: _____

If you would like to receive e-mails from What Digital Camera containing news, special offers and product and service information and take part in research, please write your e-mail address below.

Email: _____

What Digital Camera, published by IPC Media (IPC), will collect your personal information to process your entry. IPC would like to contact you by post or telephone to promote and ask your opinion on our products and services.
Tick here if you prefer not to be contacted. ☐ IPC occasionally pass your details to carefully selected organisations so they can contact you by telephone or post with regards to promoting and researching their products and services. Tick here if you prefer not to be contacted. ☐

YYePG Proudly Presents, Thx for Support

# Create *A Duotone*

## Designed for the printing industry, duotones can be be used to apply subtle tints to monochromatic images

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

**Duotones have a dual life. They're a special type of file designed for the printing industry, where a second colour is used to tint or intensify the tones in a monochromatic image. They came about because a single ink on a printing press cannot reproduce a sufficiently subtle range of tones, and a second ink (either a colour or a second, 'grey', ink) is needed to produce top-quality results.**

The second use for duotones is in ordinary inkjet printing, where there's no need to compensate for the inadequacies of commercial printing presses, but where you may still want to apply carefully judged tints to monochromatic images.

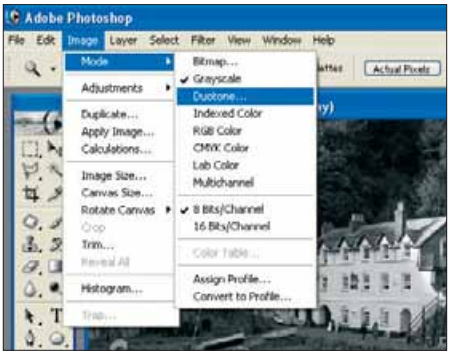
A duotone in Photoshop is a very specific type of file, one which doesn't include the standard RGB (Red, Green and Blue) channels of an ordinary colour image, but which has a 'Black' channel and a second channel of any colour (and a third, or fourth, with more complex 'tritones' and 'quadtones').

This specialised image format means that you can't save duotones as ordinary JPEG or TIFF images, only as Photoshop-format files or the EPS (Encapsulated PostScript) format used for graphics in the printing industry.

But there's nothing to stop you creating and editing your images as duotones in Photoshop, saving your work-in-progress as Photoshop files, then converting them to RGB if and when you need JPEG versions.

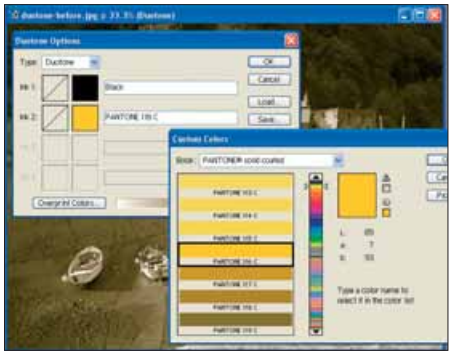
## 1 Convert *to grey*

Duotone images are a kind of hybrid between greyscale images and RGB images. In effect, you're adding a second colour channel to a greyscale image. You can't convert an RGB image straight into a duotone, for that very reason. First, you have to choose **Image > Mode > Grayscale**.




## 2 Convert *to duotone*

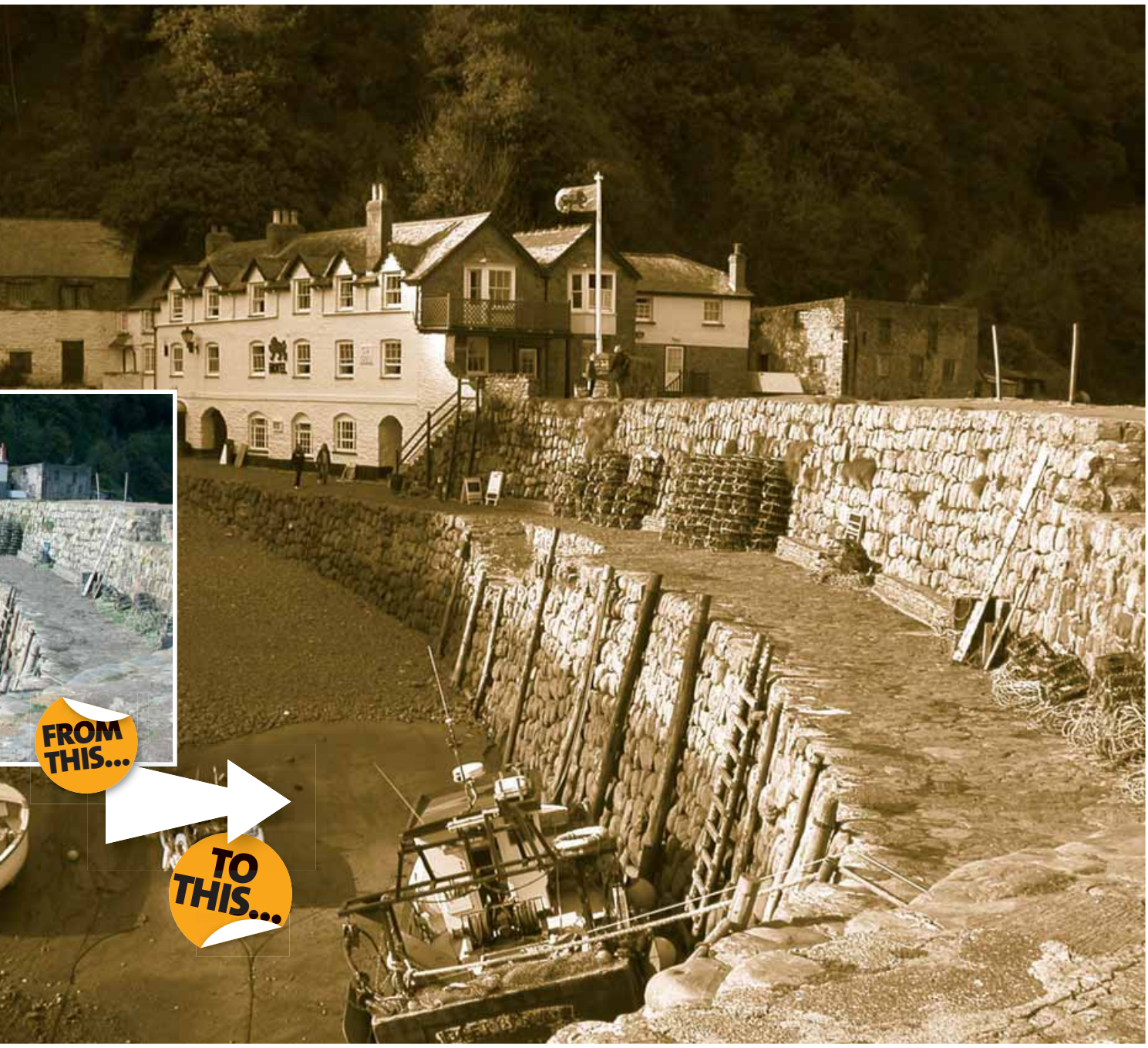
Once you've done this, if you reopen the **Image > Mode** menu, you'll notice that the Duotone option is now enabled. Incidentally, there are no options here for tritones or quadtones – these only become available when you use the Duotone command, which displays the following dialogue box.

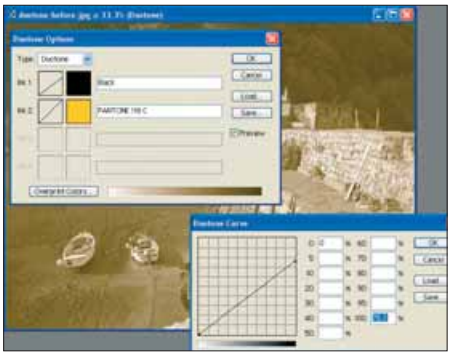



## 3 Duotone *colours*

The Duotone Options dialogue box will look something like this. Ink 1 is black, and Ink 2 is a Pantone colour. You can change this colour by clicking it – click the Picker button in the Custom Colors dialogue box to display the standard Color Picker dialogue box rather than Pantones.

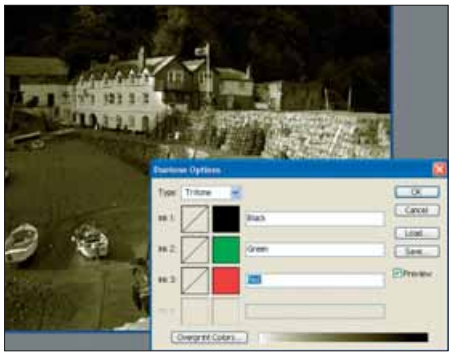
YYePG Proudly Presents, Thx for Support



## 4 Adjust *the curves*

Click on the Curves symbol to the left of the ink colour. These curves are the opposite way round to usual, with highlights to the left and shadows to the right. By dragging down the shadow point of the black ink, for example, we can produce darker areas made up only of the yellow ink for an antique effect.



## 5 Create *a tritone*

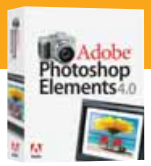
Now for a more ambitious tritone image to counter the complex colour casts we get printing mono prints on a colour inkjet printer. We need a green ink to counter a magenta cast in the shadows and a red ink to counter a cyan cast in the midtones. This time we're going to enter ink values directly.

## 6 Ink *values*

Start with the green ink curve and enter a value of 0 in the 100% brightness box to remove all green from the image. Enter 5% green in the 10% brightness box, then 0% in the 20% box to bring the green ink level down to 0 again. Do the same with the red ink in the midtone range.

YYePG Proudly Presents, Thx for Support

SOFTWARE
ADOBE PHOTOSHOP
PHOTOSHOP 7.0 , CS & ELEMENTS
LEVEL
BEGINNER




# Perfect *Prints*

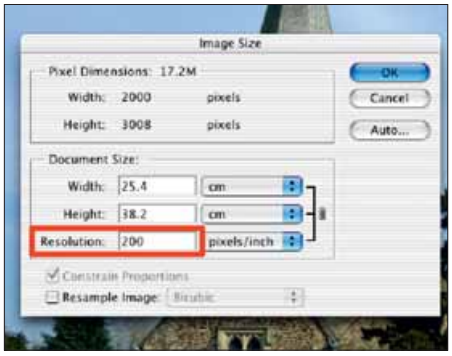
## The most crucial stage in making a digital photograph is the final printout. We guide you through the process

**Shooting a great digital photo is only half the story – making a print to do it justice can be just as tricky.**

With a huge increase in the number of different printers, inks and paper, there's never been an easier time to start making photo-quality prints. Yet driving your printer properly can be just as demanding as choosing the right camera settings and making the right editing moves in your imaging application.

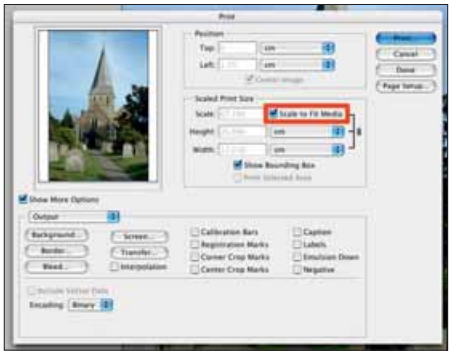
To get best results from your inkjet printer, it's essential to get to grips with its dedicated printer software, as it's here where you can control quality, speed and colour balance. Once your printer's connected and with the printer software installed, make sure that you set your inkjet up as your target printer and you are ready to go.

Printer software for a colour inkjet is much more than a simple paper size and orientation device, as it actually controls the amount of ink sprayed onto the paper. By a clever use of inbuilt settings, the printer software adjusts the ink flow to match the varying needs of different inkjet papers. Glossy papers are able to hold more ink than matte or plain papers, so it's vital that you select the correct media setting to start with.



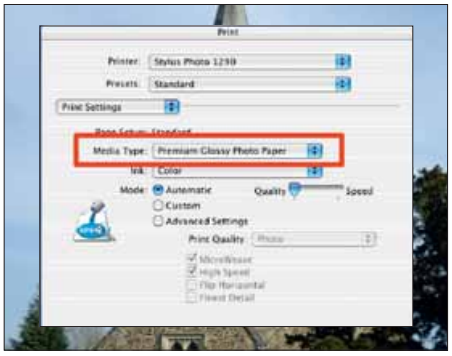

## 1 Image *size*

Check your image size. The first and most important stage is to prepare your image with the right resolution and size. In your Image Size dialogue box, uncheck the resample box and make the resolution 200 pixels per inch. You'll see no difference in quality if your image is prepared with a higher resolution.



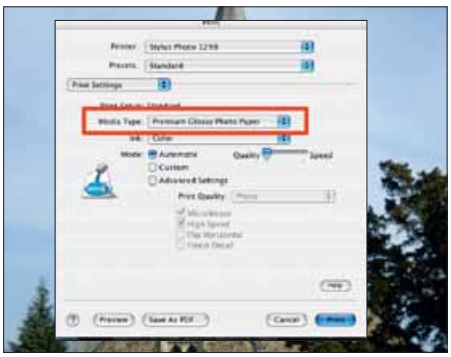
## 2 Print *preview*

Next do **File > Print with Preview** and check how your image sits on the current paper size. If it's too big, it will overspill at the edges of the paper as shown, but if it's too small it will sit surrounded by white borders. If you do need to resize, click on the Scale to Fit Media option.



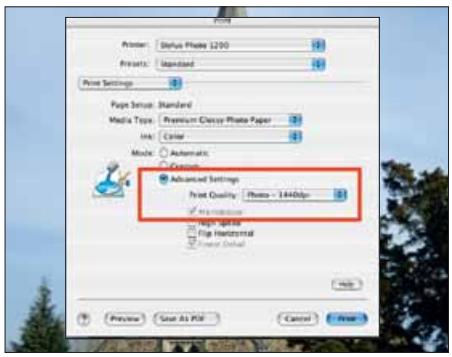
## 3 Page *set up*

Now go to **File > Page Setup** and choose the size of paper and the orientation of your printout. The maximum size of your print paper is determined by the width of your printer carriage, but you can also make your photograph print in the portrait or landscape format.



## 4 Media *type*

The most crucial stage in the process is the selection of the right media type. Do **File > Print** and choose the nearest option to your print paper that appears in the Media Type drop-down menu. Don't expect brand names, but surface types such as glossy, matte or film.



## 5 Printer *resolution*

Finally, choose the print quality by clicking into the **Print Quality** drop-down. For general purpose output, choose 1440dpi. Lesser settings such as 720dpi will look less photo-realistic, and higher settings such as 2880dpi will take ages to print out.

## 6 Finished *results*

After the print emerges from the inkjet, leave it to dry for a couple of minutes before you start to judge colour balance and whether it's too light or too dark. When wet, the print will look bluish and may give a false impression. Try to view the dry print under daylight if possible.

YrePG Proudly Presents, Thx for Support

# TOP TIPS!

**PAPER AND INK TYPES**
Best quality results are achieved by using photo-quality glossy papers, such as those made by Epson or Canon. Heavier weight papers will help your prints to feel like a conventional photographic print and will last longer too. If your printer accepts the slightly more expensive lightfast ink cartridges, they are well worth the money as your printouts will be less likely to fade in a few months. The best quality of all is made by using pigment ink sets, which are guaranteed to last more than 60 years.

**MAKE A TEST STRIP FIRST**
A much better way of saving expensive paper and inks is to make a smaller test print before chancing a full-sized print. Use your Rectangular Marquee tool to make a selection within your image, then choose the **Print Selected Area** option in your printer software dialogue box. Your smaller selection will now be printed.

**JUDGING COLOUR BALANCE**
If your print emerges with an overall colour cast, then you'll need to make some adjustments before sending another version to print. The best tool to use is Photoshop's Variations box which presents you with a ring-around display of your image with several different coloured versions to choose from.

YYePG Proudly Presents, Thx for Support

# 25 Top Tips

Follow these twenty-five printing tips and tricks for your best prints ever

## MAKE BLACK AND WHITE PRINTS

It's difficult to get a neutral grey with colour inks, so mono images often have unwanted colour casts. There are three cures: print using just the black ink (not the quality option); select a sepia tone rather than pure grey; or use special b&w ink sets, which use inks in several shades of 'black' for superior tonality.

## USE QUALITY PAPER

For the best results, use the best paper you can afford. Heavier weight papers with decent gloss or matt surfaces look more professional and are more likely to stay pristine for longer.

## AVOID CHEAP INKS

Some cheap, third-party inks produce inferior results and fade quicker than proprietary inks. For best results and superior archival properties stick with your manufacturer's inks, or those from a reputable company.

## MONO PRINTS

Inkjet printers are only capable of printing 17 unique shades of grey; the other shades are made up from the colour inks. Some printers have a monochrome setting; this again just desaturates the image. The HP 7960 has a dedicated monochrome cartridge (No. 59) which can print 4,097 unique shades of grey – and will produce outstanding monochrome prints.

## TAKE EXTRA CARE WHEN PRINTING SO THAT DELICATE HIGHLIGHTS ARE NOT LOST

Understanding how your printer, inkset & paper work together will help you retain highlights when making prints.

**STEP 1** Make a greyscale that ranges in distinct steps from 225 (light grey) to 255 (pure white). Indicate where one tone stops and the next starts, and its value.

**STEP 2** Set your printer on the settings you will use. Write these down. Print the test greyscale, examine it and locate the point where there is no difference between the printed areas and paper support. Note down the tone value.

**STEP 3** After making basic brightness and contrast changes you can customise it to output precisely on your printer by adding a levels adjustment layer before printing. Drag the white point OUTPUT slider of this layer until it matches the tonal value you noted in step 2. Now your highlights will print within your hardware's range.

YYePG Proudly Presents, Thx for Support

## WIDE BORDERS FOR CLASS

Why not add a touch of class to your prints by giving them a wide white border? A two inch (5cm) border around an image isolates it more from its surroundings and gives it room to breathe. It will look better in a frame or on the wall, too.

SEE PAGE 32

## SPACE SAVER

If you want both a printer and a scanner, and space in your home office is limited, consider an All-In-One or Multi-Function device. These combine a printer and scanner in one machine, sometimes with a fax machine and photocopier thrown in too. Manufacturers usually use the same components as for their separates, so quality is comparable nowadays.

## MULTI PRINTS SAVE PAPER

Inkjet paper is expensive so don't waste it. You can easily produce several prints on a single sheet of paper – either different images or the same image at different sizes, for framing and carrying in a wallet.

## MATT PAPER FOR FRAMING

Glossy paper is popular for its boldness and apparent sharpness, but if you're making prints to put on the wall, the highly reflective surface can make them difficult to view. Try switching to matt paper which suffers less from reflections and can be viewed more easily.

## RESOLUTION

Although some printers boast the capability to produce well over 1000 dots per inch, you're rarely likely to need more than 300dpi. Setting higher resolutions than this uses more ink, takes longer to print and, at the end of the day, it's unlikely you'll be able to tell the difference.

## THERE'S NOT JUST INKJET

A small, portable dye-transfer or thermal printer can be carried around with you, making them tops in the convenience stakes, and they can also produce 6x4in enprints that are more photo-realistic and permanent. On the minus side they do cost a little more than inkjets.

## MORE INK TANKS THE BETTER

When choosing a printer, look for one that uses six inks instead of four. These will give more realistic results. Also, printers with separate ink tanks for each colour are more economical than combined tanks, since you can replace each colour as it runs out, rather than all the inks at once.

## D&P ON PHOTO PAPER

The old fashioned d&p service used by film consumers can be used to print digital files too, and they're a great, cost-effective way to get prints from your digital images. Because they're printed on silver-based photographic paper they offer good archival qualities too, and cost only a few pence each. Much less hassle than trying to print them all yourself.

## USE PIGMENT INKS FOR PERMANENCE

If you're seriously into b&w fine art printing for exhibition or portfolio use, get an inkjet printer that uses pigment inks rather than dyes, as these are much more permanent. If the budget will stretch, it's also a good idea to get one that can print up to A3.

## ONLINE D&P

If you don't live near a chemist or photo shop or can't get out easily, getting your photos developed can be a bit of a chore. So why not upload them to an on-line photo lab instead. They'll print your photos and post them back to you in a couple of days. You can pay online too.

YYePG Proudly Presents, Thx for Support

## ADJUSTMENT MASK

Rather than applying dodge and burning in directly to the picture, try making the adjustments using a mask in conjunction with a levels adjustment layer

## LEVELS

When the Levels input sliders are adjusted whilst holding down the Alt key the feature switches to preview mode so that you can see the pixels that are being converted to white or black.

## CHANNEL MIXER

Using Photoshop's Channel Mixer is a great way to control the way that hues are translated to greys when you are converting colour pictures to black and white.

## GETTING INTIMATE WITH YOUR PRINTER

Every printer is different. Add a variety of paper and ink sets into the equation and it is almost impossible to make a blanket statement about what precise settings should be used to produce great black and white prints. Yes in some cases you can get good results right off the bat with little or no tweaking. This is especially true if you are using one of the new photo printers which include several black (grey) inks used for outputting black and white, but the way to ensure the best results with any machine is to test it first and then match your pictures to the characteristics of the printer.

## MID TONES

Pushing the mid tones of your pictures to the right of the histogram during exposure, positions the bulk of the photo's tones in the part of the digital file that can contains the most space. Be careful though not to lose highlight details in the process.

## CLOGGED BLACK AREAS

Clogged black areas in your photo? If your photo has no detail in the shadow area at all and the black areas of the print are flat and clogged up, add a little texture to the whole of the image with the Add Noise filter set to Monochrome.

## PROFILES

Profile the printer/ink/paper combination Though not an option that is available to everyone, a more accurate way of establishing the characteristics of your printer is to make, or have made, a specific ICC profile which can then be used when outputting not just monochromes but all of your prints. A correctly created profile understands the way that your printer prints including the points on the greyscale where it deviates from a neutral. Applying the profile when printing manipulates the colours and tones in the original photo to make up for the inadequacies of the printer/paper/ink combination. Standard profiles are often supplied with your printer software so make sure that you select them in the printer driver before printing. Custom ICC profiles can be created for your specific print setup by online specialists.

## NON-NEUTRAL GREYSCALES

Try tweaking the printer driver's colour settings

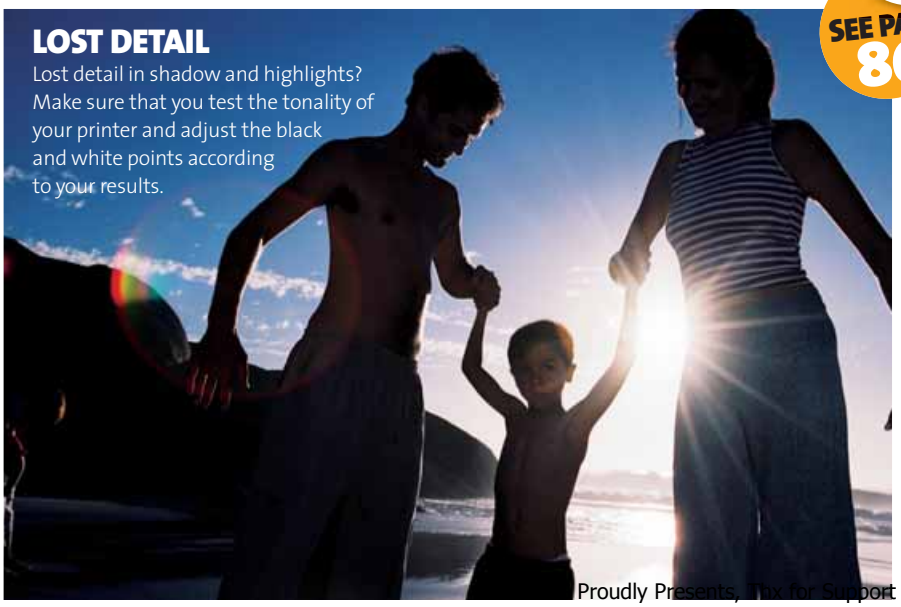
- Tint the monochrome to disguise the colour cast
- Use a printer with a multi-black ink set
- Get a custom profile made of your printer, paper and inkset

## MULTI BLACK PRINTER

The final solution to the complex cast problem is for you to start using a multi-black photo printer like the ones now being marketed by Epson and hp (Hewlett Packard). These machines contain not just one black cartridge but up to three different black cartridges (black, and two different densities of grey). The additional inks are used in place of coloured dots when printing monochromes and provide the most neutral black and white prints that we have ever seen from a colour desktop printer. In addition, the software bundled with these machines often include specialist monochrome printing utilities designed to help finetune the black and white output results.

## LOST DETAIL

Lost detail in shadow and highlights? Make sure that you test the tonality of your printer and adjust the black and white points according to your results.

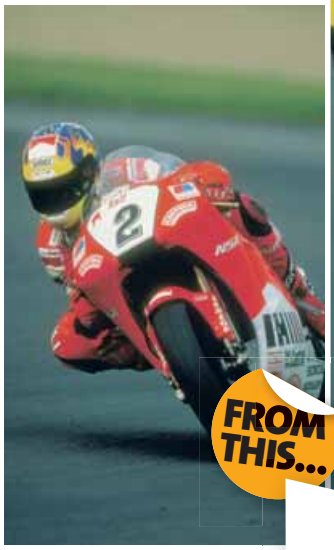


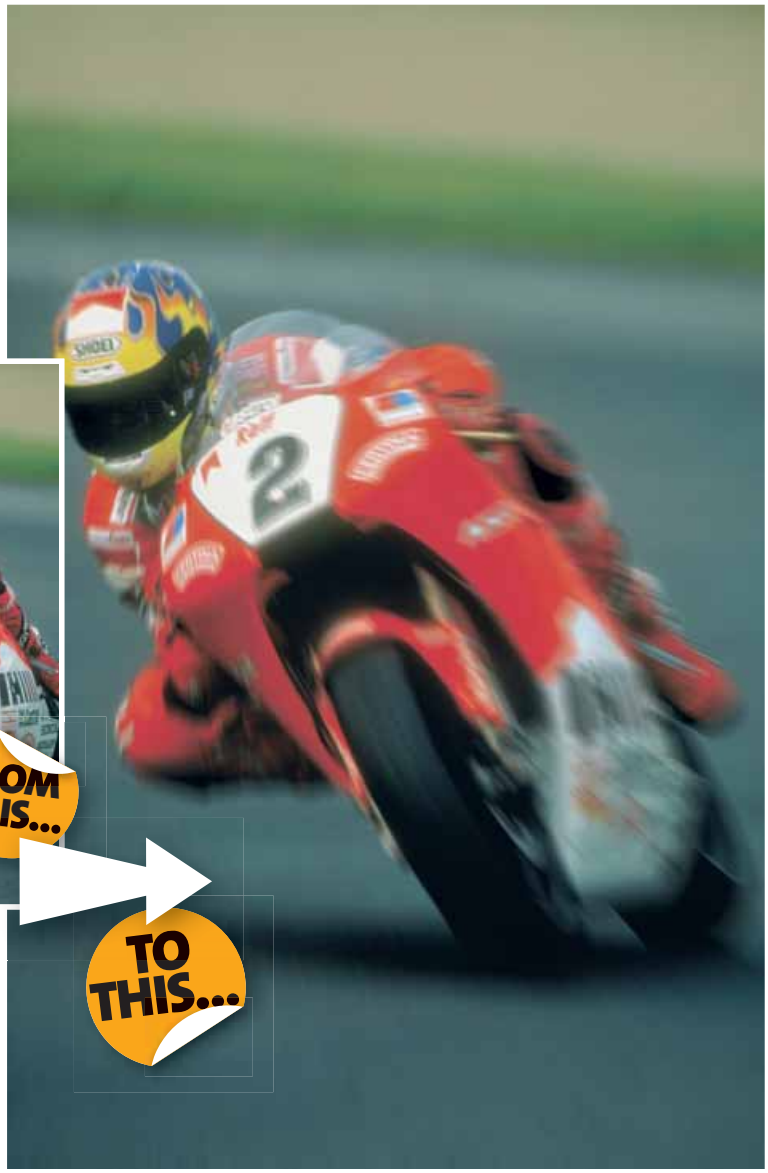
SEE PAGE 86

Proudly Presents, Thx for Support

# Radial *Blur*

Filters are a quick and easy way to add dramatic effects. Be very careful when you apply them though




**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**BEGINNER**

**With the right image, applying radial blur to an image can add drama and excitement and give a much-needed feel of movement to a static image.**

On this image we're going to add a little radial blur to give the motorbike a greater feeling of movement and speed.

As with all filters, the blur filter should be used sparingly and with care if you want your photos to look realistic.

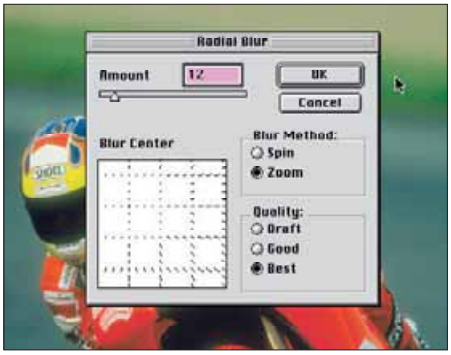
Always begin by making a duplicate of your original image. In the Image menu select Duplicate and name the new image.

**TOP TIPS!**

**TRY THE SAME FILTER ON DIFFERENT SUBJECTS**
A child jumping or running towards the camera would be a good subject, for example. The subject doesn't need to be pin sharp, as you're blurring it anyway.

## 1 Select *filter*

From the Image menu bar select **Filters** then select **Blur** in the drop-down menu and finally **Radial Blur.** Radial blur adds movement from the centre of the image. In the filter dialogue box select the zoom option.




## 2 Preview *box*

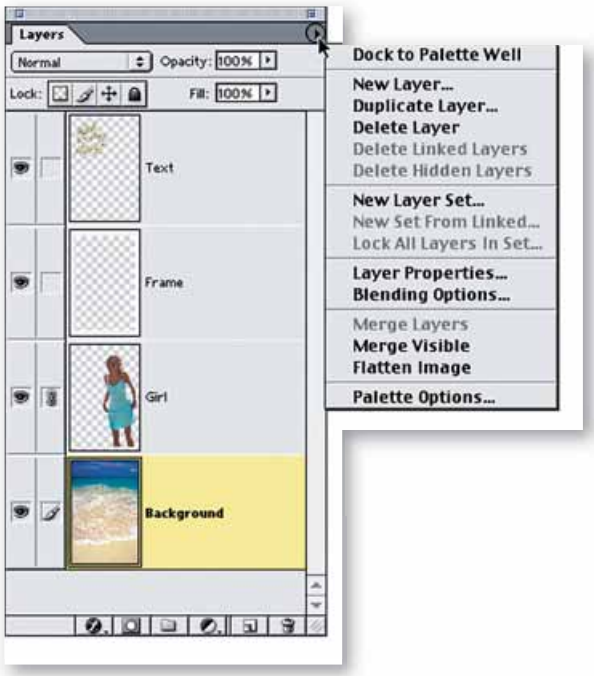
A preview box allows you to move the central focus area. For this picture the main subject's head is to the left, so the central section is moved to here. Be careful not to overdo the amount of the effect.

## 3 Render *filter*

Click **ok** and the image will render the effect. In this example the filters gives the appearance of the bike cornering at a very high speed. Adjust the level of the blur until you're happy with it. Save the image as usual.

YYePG Proudly Presents, Thx for Support

Wish
you were
Here!
YYePG Proudly Presents, Thx for Support




# A Guide *To Layers*

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**ELEMENTS**
**LEVEL**
**BEGINNER**

Using layers to create more exciting images isn't as scary as it looks. Programs such as Photoshop use a palette for easy navigation

**It doesn't take new digital photographers much time before they want to do more with their pictures than simply download and print them. Before you know it they are adding text to their photographs, combining several images together, and even adding fancy borders to their pictures.**

In some image-editing packages these sorts of activities are performed directly on the picture which means that making corrections, or slight modifications of these changes at a later date, is difficult if not almost impossible.

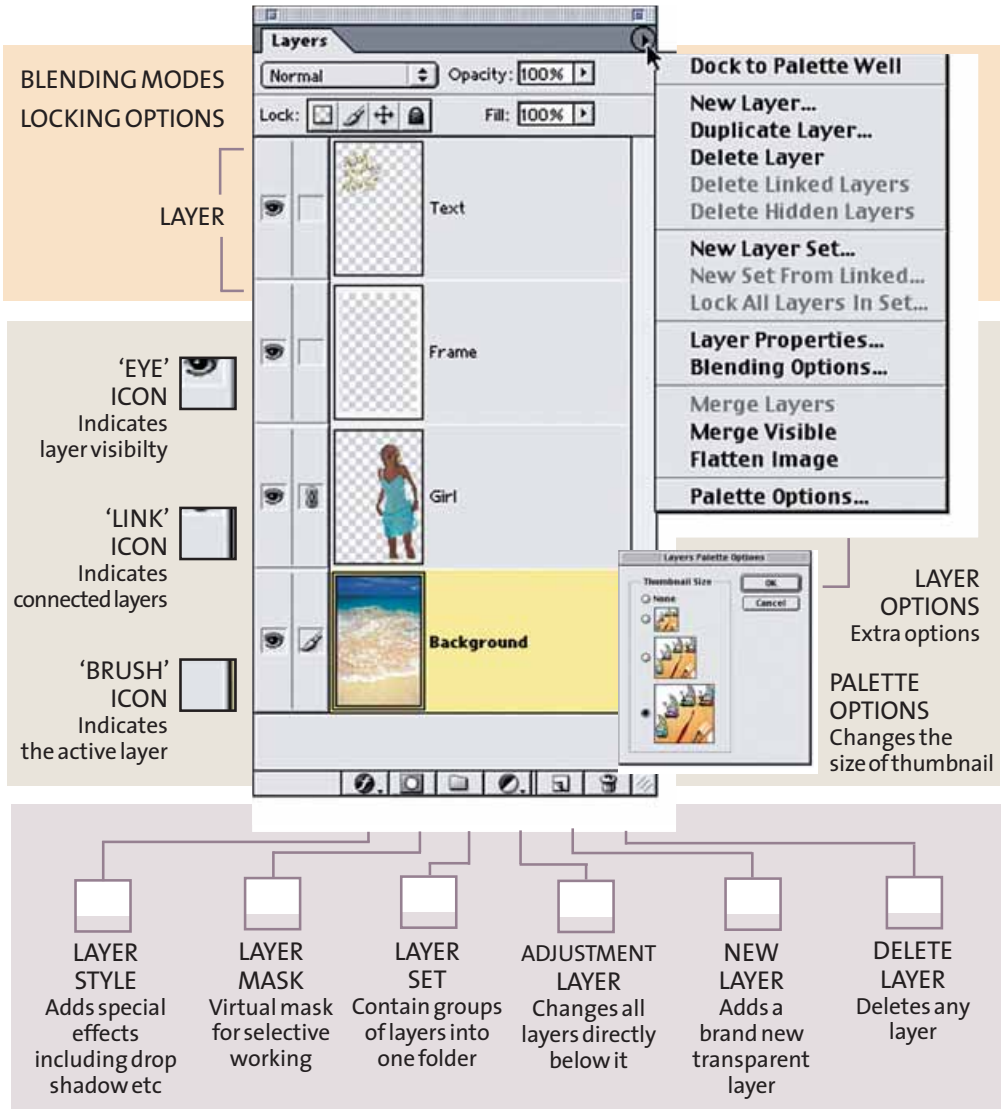
The leading programs – such as Photoshop, Photoshop Elements, PaintShop Pro and PhotoImpact – provide a better approach to image editing by providing a layer system to their files. This enables users to separate different components of a picture onto different layers. Each layer can be moved and edited independently. This is a big advantage compared with programs that treat the picture as a flat file where any changes become a permanent part of the picture.

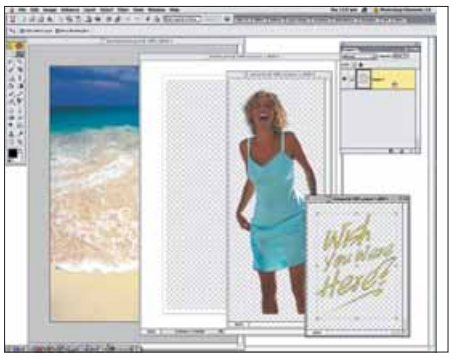
Though each program handles this system differently, all provide a palette that you can use to view each of the layers and their content (left). The layers are positioned one above each other in a stack and the picture you see in the work area is a preview of the image with all the layers combined.

If you've ever seen how cartoons are made, you will know that each drawing is created onto a transparent sheet. These sheets are placed one on top of the other, on top of a background image. All the elements show through, resulting in one visual image. The same principle applies to layers in a digital image. An image can be created using multiple elements, each one contained on its own transparent layer, one on top of the other. They are independent of each other and can be moved and manipulated without affecting the other layers. >>

YYePG Proudly Presents, Thx for Support

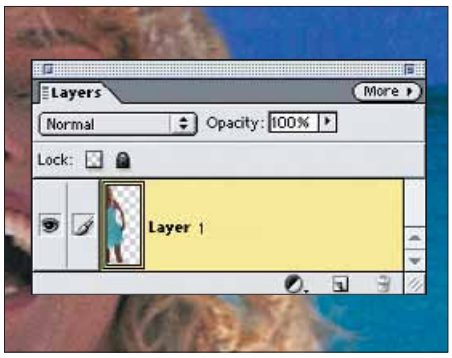
# The Layers *Palette*



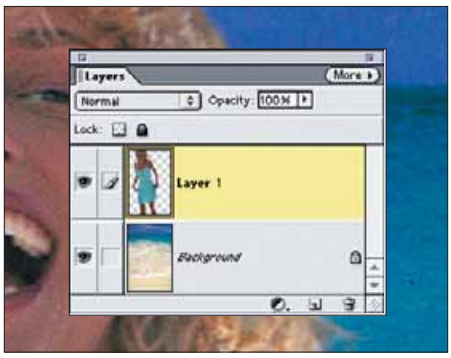
## 1 Open *all layers*

We have used four layers as shown on the opposite page. With all four files open, click on the Girl image. Notice that the girl is on a background of chequered squares. This tells you the file is a ' layer' and has a transparent background. The squares are the default and won't move.




## 2 Drag *layer*

Click and hold down the mouse button and 'drag' the girl onto the beach background window. As you release the mouse over the beach background window, the girl will appear on top of the background. You will also see on the layers pallete that a new layer, layer 1 has appeared.




## 3 Resize *image*

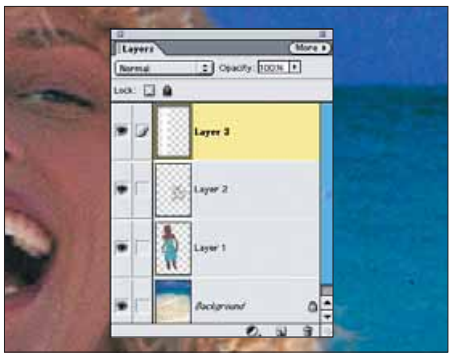
The Photoshop Elements bounding box will surround the girl, which indicates that you can resize the image. Holding down the Shift key, drag the bounding box down to constrain the size of the image until you're happy with the result. Press Return to okay the resize.

YYePG Proudly Presents, Thx for Support

## EXPLODED VIEW OF LAYERS

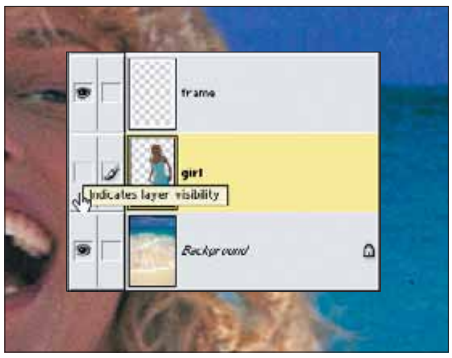
Images are often created using several different pages separated and stored on different layers. This helps when editing or if you need to do things like change some text at the last moment. Just bring the layer you want to work on to the front using the layers palette, make your change and then save it.

# **Exploded** *Layers View*



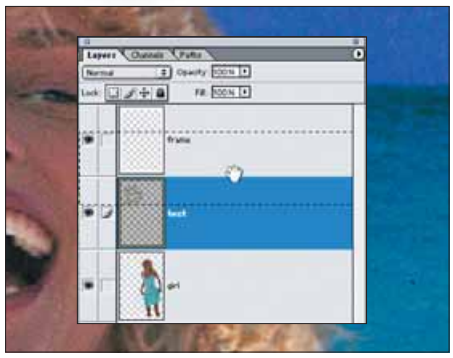
## 4 **Rename** *layers*

Copy steps 2 & 3 with the other files. Notice that in the layers pallete, layer 2 and layer 3 have appeared above layer 1. Clicking on each layer will highlight yellow, indicating that it has become the active layer. Double click on each layer name and rename them girl, text and frame.




## 5 **Eye** *icon*

On the left of the pallete is an 'eye' icon. If you click this, it will disappear, along with the image. This enables you to temporarily hide the layer for convenience. Click on the icon again and it will reappear. In this way you can hide as many layers as you want.



## 6 **Text layer** *on top*

Layer stacking orders can be changed by clicking and dragging the layer up or down within the layers palette. Click and drag the text layer upwards, so it becomes the top layer, above the frame. This will enable the text to overlap the frame. Save the image as a Photoshop file.

YYePG Proudly Presents, Thx for Support

*Make your own...*

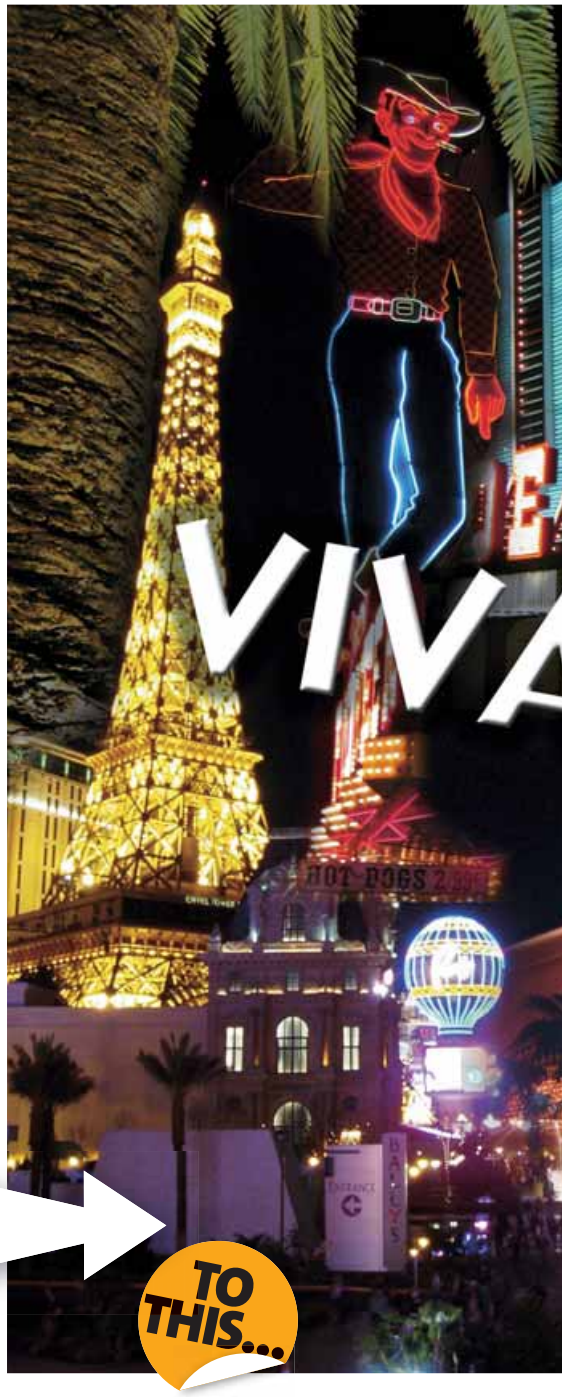
# Holiday *Montage*

Don't hide all those holiday snaps away after everyone has seen them – make a fantastic holiday montage

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**INTERMEDIATE**

**It's all too easy to forget your holiday pictures and put them away in an album, never to be seen again!**

Making a holiday montage allows you to give them a new lease of life. We show you how to add a number of images together to create one larger one, create soft edges to blend in the subjects to make pleasing joins, use effects such as radial blur (see page 57) to create an extra-special look and finally add text to give it that personal touch (turn to page 58 for the basics on handling layers).



## 1 New *document*

Create a new document that measures 27cm across by 19cm high, with a resolution of 72 pixels per inch (**File > New**). Then set the background to black, and save the file as mymontage.psd to your hard drive.

## 2 Drag *images*

In this example, we had 5 images to montage. Open all the images in the Montage Tutorial folder on the website. Click and drag pic 1.psd onto your new **mymontage** file. Repeat with pic 2. Position image 1 to the left side and image 2 to the right.

YYePG Proudly Presents, Thx for Support

## 3 Transform *tool*

We dragged the pic 3 file onto our document. Use the Transform tool (**Edit > Transform > Scale**) to resize the image to the desired size. Press return to accept the size. Move the image to the upper middle of the montage.

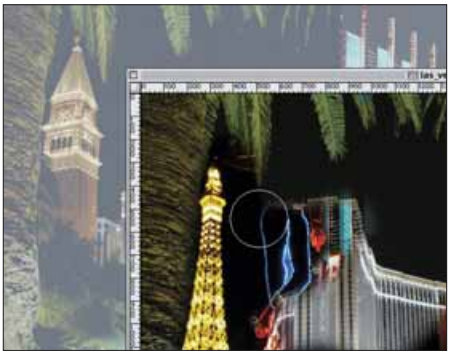
## 4 Overlap *images*

Continue to click and drag on the remaining images. Remember when you position them that each image must overlap to some degree so each one will blend together better as we progress. Close all the numbered psd files.

YYePG Proudly Presents, Thx for Support

## 5 Flatten *or not*

You could stop here and print out your simple montage. If you do want to finish, it may help to flatten all layers (**Layer > Flatten Image**) and save – you won't be able to access the layers again, but it will make a smaller-sized file.



## 6 Eraser *tool*

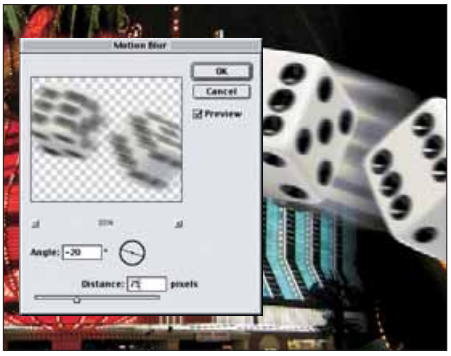
Select the eraser tool from the tool menu. Choose a suitable brush size of 100 and an opacity of 100%. Gently sweep the eraser round both sides of the middle picures. Take your time and make sure you're happy with each stroke. You can adjust the opacity slider so less is erased with each stroke to give you more control. Remember to keep saving your work!

## 7 Add *palm*

We added an image of a palm tree to our document. Erase around the palm tree deleting the tower and buildings. Continue using the eraser on other sections of the montage. Experiment with erasing close to the edges of subjects. If you make a mistake, open the History pallete (**Window > History**) and click on a step that will take you backwards.

## 8 Cut out *images*

For this example we decided to add some dice into the mix. Our image was on a blue background and was cut out using the Magic Wand tool. If you decide to add extra images into your montage, remember to cut them out using the Lasso tool or use the Pen tool and make the path into a selection.



## 9 Motion *blur*

Click and drag the dice in the layers palette down onto the page icon at the bottom – this will duplicate the dice layer. Choose the bottom dice layer and apply motion blur of 110 (**Filter>Blur>Motion Blur**). The 'angle dial' will allow you to specify from which direction the blur will come from so choose -20.

## 10 Blurred *layer*

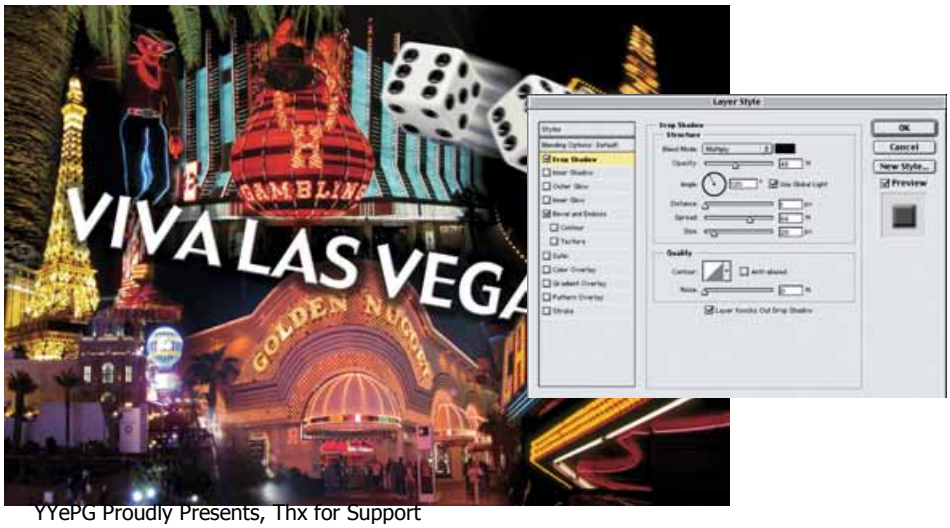
You will notice the blur appears at both ends of the dice and doesn't look realistic. To overcome this, move the blurred layer down and to the right. The blur should now only appear as a 'trail' on the right side of the dice. Select the upper dice layer in the layers palette and apply just a small amount of motion blur. This should look more realistic.

## 11 Add *text*

Add text by selecting the Text tool from the tool menu. Choose a suitable font and colour from the text menu bar. Type your message. Adjust the size in the type size input window on the menu bar or you can resize using the transform tool (**Edit > Transform > Scale**) to the desired size. Position in the middle of the montage.

## 12 Drop *shadow*

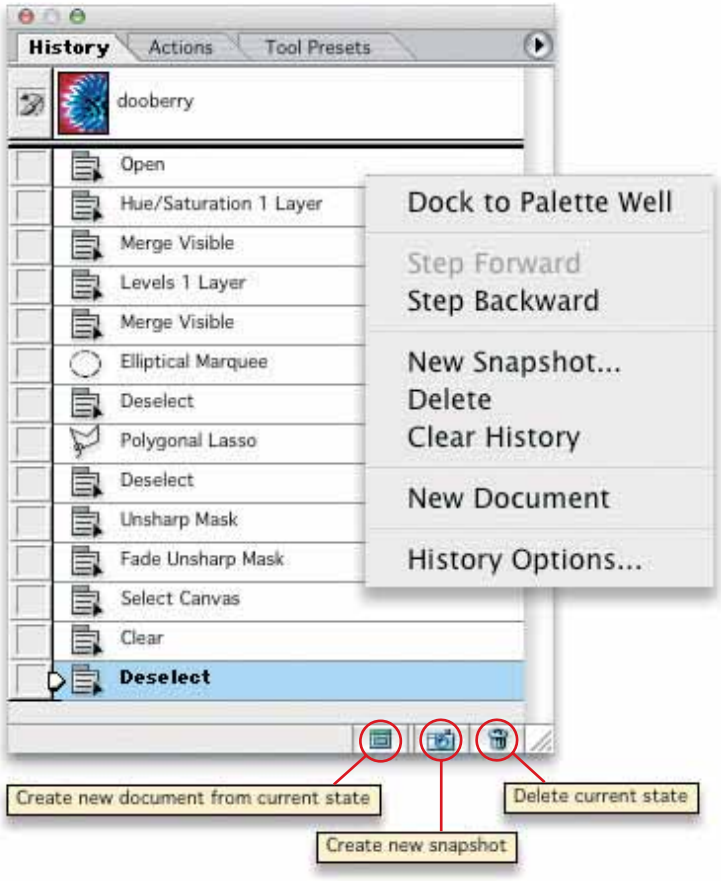
Finish the text by adding a drop shadow and an emboss (**Layer > Layer style > Drop shadow**). Click the drop shadow check box and then click on drop shadow. Enter a distance of 1, spread of 66, size of 20 and an opacity of 45. Then click on the emboss check box further down and click on Bevel & Emboss and click OK to accept the default style. Your montage is now complete! If you continue to save the image as a .psd file, you will always be able to access the layers when re-opening. But flattening the image (Layer> Flatten image) will result in a smaller file size and give you the option to save as a different file type, eg. JPEG, the file format to email.



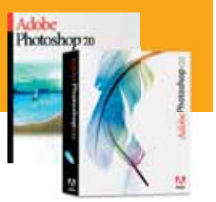

YYePG Proudly Presents, Thx for Support

# History Palette

We all know the feeling when you've created a masterpiece and then you notice a mistake. No problem – just go back in time!




**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**BEGINNER**

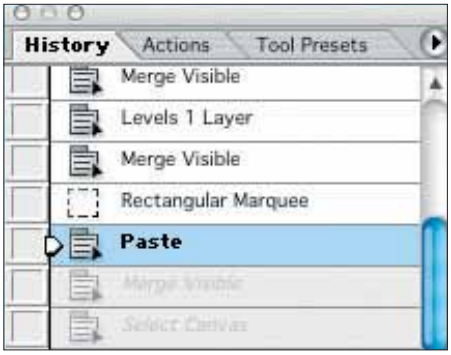


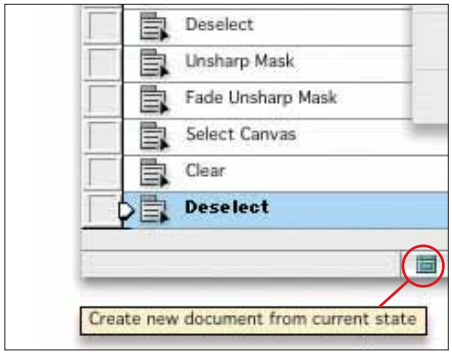

**One of Photoshop's most powerful and useful abilities is the option to go back in the 'history' of your image. This means that at any point, you can go back to a previous version of your work. This is particularly useful if you find you've made a mistake several steps before. You'll notice that the History window (which can be opened via the Windows>History menu if it's not already open) lists all of the steps you've made in your image.**

You can go backwards and forwards in the list to see what you've done. Once you make any changes from an earlier state, however, all states that were after that one in the history are deleted. In our main diagram (right) you can see the History palette options menu, found by clicking the little arrow at the top right corner of the palette. If you chose History Options from that menu, you would then see the box shown below where various palette options can be selected. You can choose Allow Non-Linear History which means you can edit an earlier state without losing the states that came after it. Those states no longer appear in the image, but they remain available if you change your mind and want to go back to them, or wish to use them as a source for any of the tool that use history states, such as the History Brush.

**TOP TIPS!**

**TRY THE SAME FILTER ON DIFFERENT SUBJECTS**
Having Photoshop keep track of too many steps can take up a lot of memory which can lead to the dreaded 'out of memory' message. You can change this by setting the amount of history states from the preferences command.




## 1 Select *filter*

The History palette allows multiple undo for as many steps backward as you have chosen in the History states box in General Preferences (**Edit> Preferences> General**). The default number of steps is 20 but you can increase this if you want.

## 2 Preview *box*

If you've made a mistake and want to undo it, simply click on the state in the History palette to which you want to return. Don't forget that once you make any changes from an earlier state all states that were after that one in the history are deleted.

YYePG Proudly Presents, Thx for Support

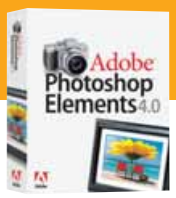
## 3 New *document*

A new document can be created from any state in the History palette. You can either drag that state to the New Document button at the bottom of the History palette, or select the state and then click the New Document button.

# Hand *Colouring*

## With a little time and patience it's easy to hand colour a black and white image using Photoshop

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**INTERMEDIATE**




**While it's true that adding colour to a monochrome is a technique that has its roots firmly planted in photographic history, this doesn't mean that we can't achieve great results by following a digital route.**

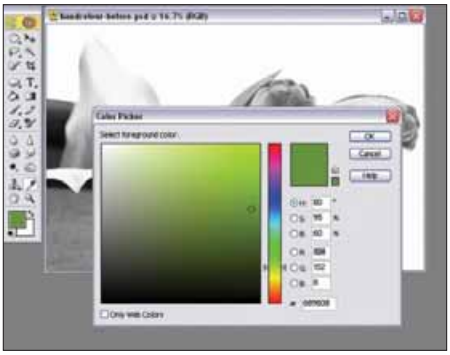
In fact, there are many advantages to using your favourite image-editing software to bring back the colours of a monochrome photograph, not the least of which is no more mixing paints.

Here we've used the Paintbrush tool to apply the colour to the photograph. But to ensure that the detail from the image shows through the colouring, we must modify the way that the hue is added. By switching the Brush mode (this is similar to the Layer Blend mode options) from its Normal setting to a specialised Color setting, the paint starts to act more like traditional watercolour.

When the hue is applied, the detail is changed in proportion to the tone beneath. Dark areas are changed to a deep version of the selected colour and lighter areas are delicately tinted.

### 1 Convert *modes*

Check what colour mode the picture is stored in by selecting **Image>Mode** and see which setting the tick is next to. For most black and white photographs the picture will be in Grayscale mode. If this is the case, change it to RGB Color (**Image>Mode>RGB Color**).



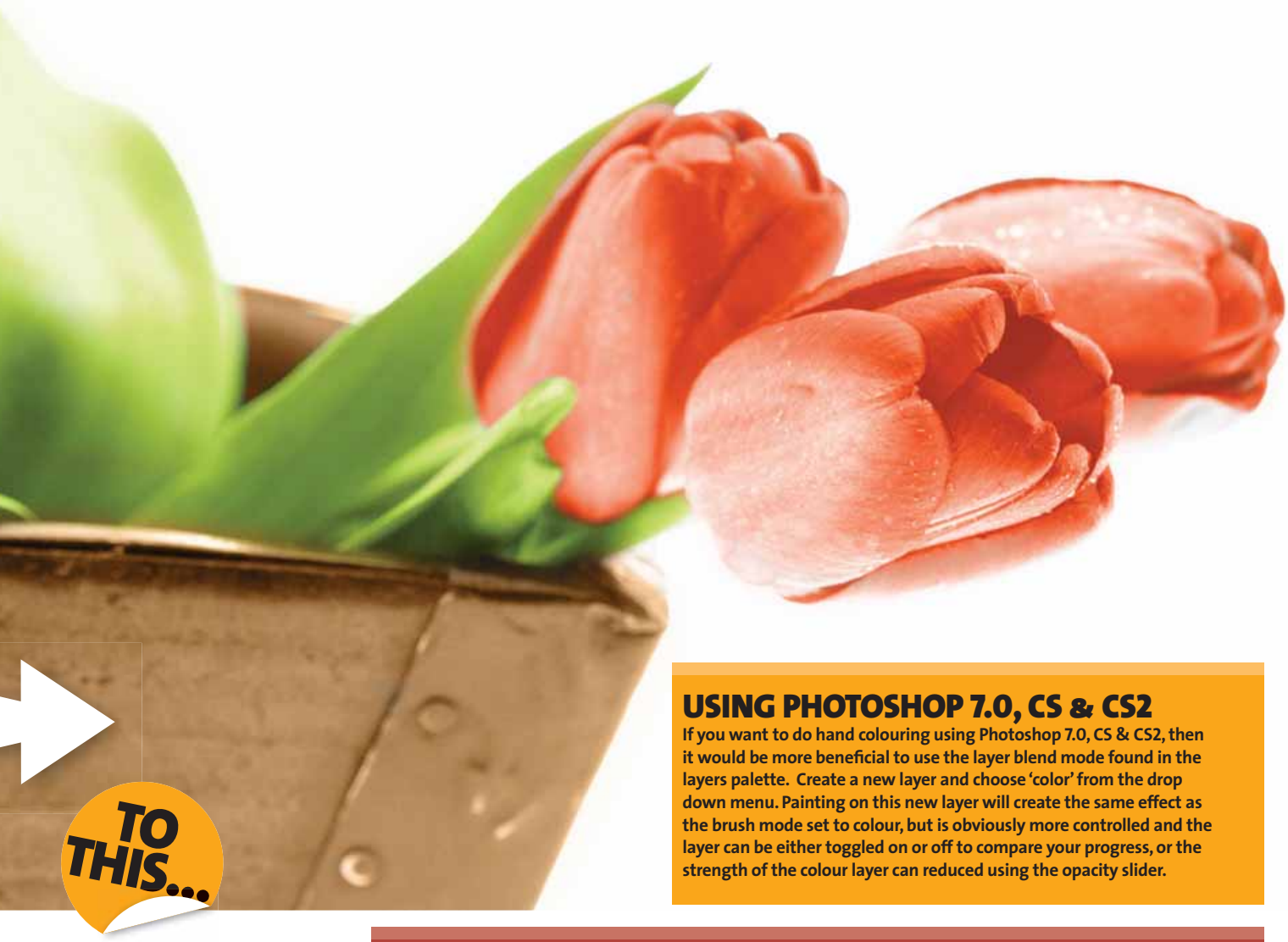
### 2 Select *swatch*

You won't notice any difference in the picture as a result of its mode change, but now the image is capable of holding colours (in greyscale it could only hold greys). Now double-click on the foreground swatch in the toolbox and select a colour appropriate for your picture.

### 3 Paint *brush*

Select the Paintbrush tool from the Toolbox and adjust its size and edge softness using the settings in the Options bar. Start to paint. You'll notice that the paint is covering the detail of the picture beneath. This is because the brush is still in Normal mode. Use Ctrl+Z to undo your painting.

YYePG Proudly Presents, Thx for Support



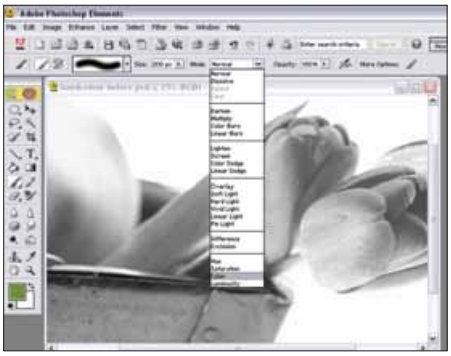

## USING PHOTOSHOP 7.0, CS & CS2

**If you want to do hand colouring using Photoshop 7.0, CS & CS2, then it would be more beneficial to use the layer blend mode found in the layers palette. Create a new layer and choose 'color' from the drop down menu. Painting on this new layer will create the same effect as the brush mode set to colour, but is obviously more controlled and the layer can be either toggled on or off to compare your progress, or the strength of the colour layer can reduced using the opacity slider.**

## TOP TIPS!

**IF YOU MAKE A MISTAKE**

**If you accidentally paint into an area with the wrong colour, don't panic. Either use the Edit>Undo command or reselect the surrounding colour using the Eyedropper tool and then paint over the mistake**



## 4 Colour *mode*

In order for the brush to just colour the picture (keeping the details from beneath) the tool must be in the Color mode. To make the change, click on the Mode drop-down menu in the Options bar and select the Color option from towards the bottom of the list.

## 5 Paint *the colours*

With the Color mode now selected, start to apply the colour again. You'll notice the difference immediately. The brush is now substituting the colour for the grey tones in the picture and doing so proportionately – dark grey equates to dark green, light grey to light green.

## 6 Choose *New Colours*

Once the leaves and stems have been coloured, select new colours for the flowers and finally the bucket. The amount and areas of the picture that you choose to colour are up to you. Some photographs look great with only one coloured section and the rest of it black and white.

YYePG Proudly Presents, Thx for Support

# Paths *To Success*

The Pen tool has myriad uses. We use it to change a background and give a glow of light around a rose

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS 7.0 & CS**
**LEVEL**
**INTERMEDIATE**

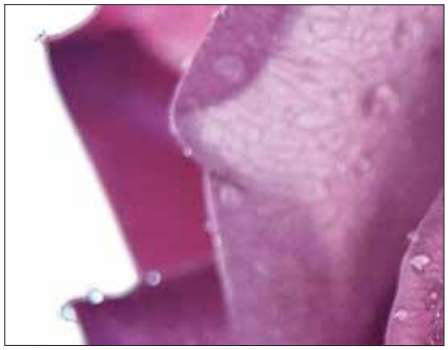
**The Pen tool creates vector paths (thin lines), and is a tool much used by designers. For photographic retouching it's most often used to define an accurate shape that can later be loaded as a selection.**

It's ideal for cutting out objects with curved lines. Once mastered, it's fast and relatively easy, compared to using a paintbrush for refining selections. On a large document it saves both time and space. Paths don't cause an increase in document size, as they contain no pixels. Pen paths can be open-ended (as a line) or closed (as a circle), and you can stroke a path with any of the painting tools. Paths can also be saved as clipping paths. Paths can be resized, transformed and copied.

So why isn't it the most commonly used selection tool? Well, it's a bit like swimming, as the first efforts aren't usually very graceful, but once learned, it's never forgotten. It takes some practice to get the co-ordination right. The magnetic pull of the curved segments seem frustrating to start with, but this is what allows us to make curved lines. When you make a strong curve by pulling a long handle, the next segment swings like a wave in the other direction if you click-drag in the same direction as before. If you don't want a change of direction, the trick is to drag the next direction line the opposite way. If you only click from one point to the other, and no handles are pulled out, you will only get straight lines, just like with the Polygonal Lasso. Sometimes we do use some straight segments, but the strength of the tool is in how it handles the bendy bits. In the beginning it's easy to get the handles and the anchor points mixed up, but remember that anchor points are clear, and the handles and the active anchor point is solid black.

Editing the path is possible at any time. Choose to do it as you go along, or after you've completed the path. When you move a handle, it moves the segments on both sides. Sometimes careful repositioning of the anchor point is the easiest way to edit.

Here, I've used the Pen tool to create a path, which was converted to a selection for cutting out the rose. It was later re-activated and stroked with white, to reinforce the backlit effect, giving a halo of light surrounding the rose.



## 1 Make *a path*

Before you use the **Pen tool**, make a new path. This will automatically save the path when the image is saved. If you don't, a new workpath will be created when you use the Pen tool, but not saved. Click on the black arrow at the top of the **Paths palette**, and choose New Path from the palette menu. Name it if you have more than one path.

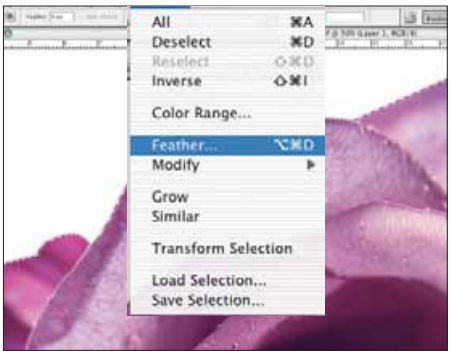
## 2 Rubber *band*

In the Pen tool options bar, click on the icon for paths (not shape layers). Tick **Rubber Band** in the Geometry Options, as it gives you a preview of the direction. Click the starting point. Keeping the path as smooth as possible, click-drag in one motion. When you change direction, handles appear. The longer the handle, the greater the bend.

YYePG Proudly Presents, Thx for Support

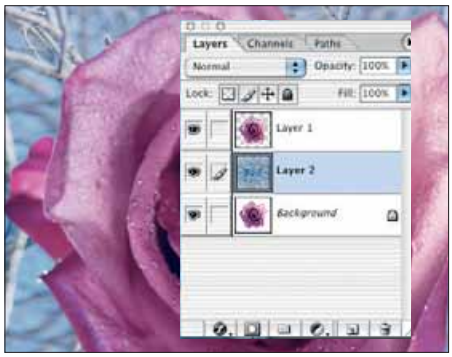
## 3 Edit *path*

Holding down the Command key, you can reposition an anchor point, change the direction of the handles, and make them shorter or longer by dragging them. To change direction, you can convert the corner point by **option/alt-clicking** the corner. With **Auto Add/Delete**, click where you want to add points or click an existing point to delete.




## 4 Feather *path*

Once the path is done, the object will have a sharp outline. To hide the path, click in the empty area in the paths palette. To reactivate it, click on its icon in the palette. Make the path into a selection by pressing **Cmd/Ctrl + Enter**. I feathered my selection 2 pixels on **Menu>Select>Feather**, then made a Layer via Copy by pressing **Cmd/Ctrl J**.




## 5 New *background*

Having placed the rose on its own layer, highlight the background layer, so the new layer is placed below the rose layer. Here, the dimensions of the background image were the same as the final document so the whole image was selected: **Cmd/Ctrl A** and copied: **Cmd/Ctrl C**. The destination image was activated and **Cmd/Ctrl V** pasted it in. **Cmd/Ctrl E** merged the new background into the old.

YYePG Proudly Presents, Thx for Support

## 6 White *glow*

Make a new blank layer. This should sit between the rose and the background and will contain a stroked path. Activate the path again. Select the Brush tool, using white colour and a big soft brush. In the Paths submenu, I selected **Stroke Path**, and the settings for the Brush tool stroked the path. Finally, **Gaussian Blur** was applied using an amount of 75.

YYePG Proudly Presents, Thx for Support

# 3D *Images*

## View your own photos in three dimensions

**Imagine looking at your own image in three dimensions, height, width and depth. This great effect can now easily be achieved in Photoshop or Paint Shop Pro.**

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

Three dimensional or 'Stereoscopic' images are nothing new. In fact the idea stretches as far back in history as to precede the invention of photography. Binocular drawings were created by Giovanni Battista Della Porta around the 1600's, but it was Sir Charles Wheatstone who, in 1838, introduced the Stereoscope. This device used two drawings with slightly offset parallel views, positioned side by side to replicate the human vision and were mounted in a handheld frame with lenses at the front, like a pair of binoculars. The images were then viewed through the lenses to produce a 'blended' composite that would appear three-dimensional.

In 1853 W Rollman illustrated the Anaglyph technique by using blue and red line drawings on a black field with red and blue glasses to create the effect. The viewer would wear the coloured glasses with red for the left eye and blue for the right. The left eye would see the blue image appear as black while not seeing the red. The right eye would be the opposite, blocking out the relevant colour. The brain perceives the two images as a three-dimensional one.

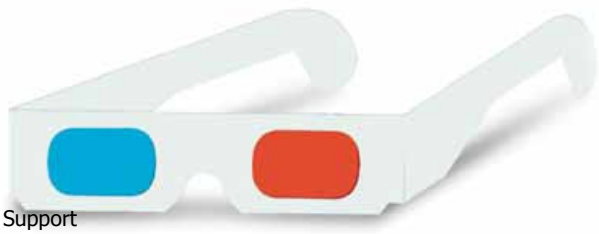
This new form of entertainment became huge when it was combined with photography, appealing even to british royalty as Queen Victoria was given a Stereoscope.

The Anaglyph technique became popular with the arrival of the cinema, as coloured film was able to reproduce the method, with viewers wearing the familiar glasses. Even now 3D seems to be enjoying another wave of popularity, with the new Mars landscape images coming from NASA and in the movies with the Spy Kids 3D, Shrek 3D DVD and James Cameron's Titanic 3D film at the Imax.

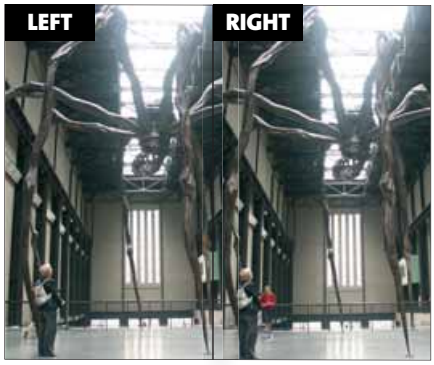
### GLASSES ON!

In this tutorial we will show you how to create your own three-dimensional images using the Anaglyph method. You will need the red and blue glasses to view them correctly.

Glasses can easily be obtained over the internet from sites like www.assistpoint.co.uk or www.eclipseglasses.com, and even at www.ebay.co.uk if you search for '3D Glasses', you can pick up pairs relatively cheaply.

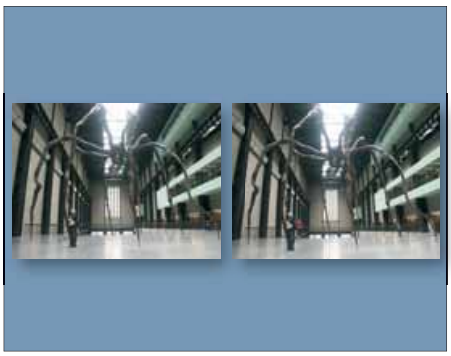


YYePG Proudly Presents, Thx for Support



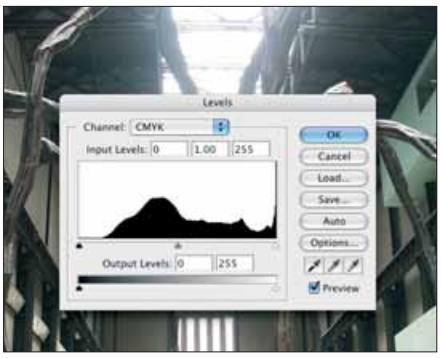

## 1 Take *your shots*

Compose your image with your digital camera and take your shot. Then move the camera about two and a half inches to the right and take another shot. Do not move the camera up or down. These slightly different images will be the basis for the stereoscopic view, and work on the same principle as the human vision.



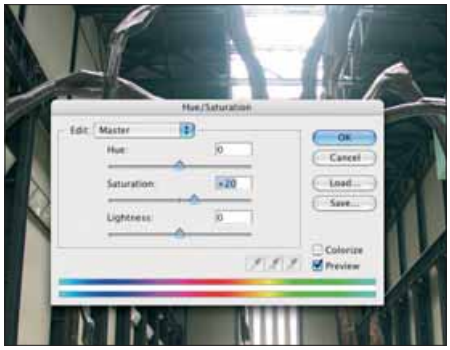
## 2 Left *& right*

Open the two images on your PC in Photoshop. Remember which one is the left shot and place it on the left side of your monitor. Do the same with the right shot. You can tell which is the left shot easily by looking at the subects – if they are more to the right in one shot, that will be the left image.




## 3 Increase *brightness*

Increase the brightness of the images to help compensate for the darkness of the coloured lenses. **Image > Adjustments > Levels**. Increase the mid range slider to about +20%. Remember to apply this adjustment to both of the images equally.

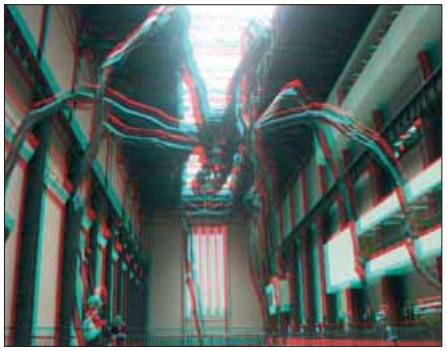



## 4 Extra *saturation*

Increase the saturation of the images by about +20%. **Image > Adjustments > Hue/Saturation**. The increase in colour will help to overcome the washed-out effect that the mixture of coloured lenses creates.

## 5 Remove *red*

With the right side image active, select the channels palette by doing **Windows>Channels**. Click onto the RED channel (the other eye icons should then disappear). Go to **Select>All**. The marquee will run around the entire image. Hit delete, as this will remove all the RED channel's information.



## 6 Paste *channel*

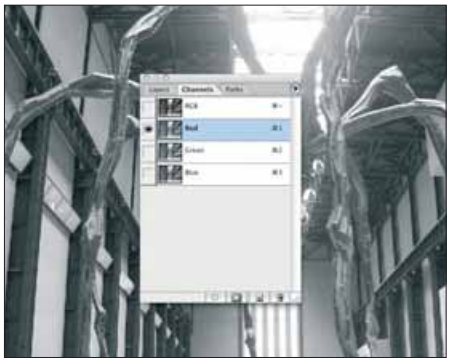
Now select the left side image. Click onto the RED channel and again, go to **Select>All**. Copy the RED channel, **Edit>Copy**. Then, paste the channel into the right image's empty RED channel. You will now need to put on your Red and Green glasses to continue with the next steps.

## Turn Your Existing *Images 3D with Photoshop*

It's possible to convert your existing 2D images into 3D Anaglyphs, even if you haven't taken the required two 'side by side' shots as in the above tutorial.

This works on the principle that the red and blue/green channels are moved apart from each other to produce the stereoscopic illusion. The further apart you move them, the more sense of depth you gain to the image (although you only need to move the red channel to do this). You will erase or mask off each layer of depth and build up a composite of increasingly converging channels, until the foreground subject has very little or no colour shift at all. Start with a simple background, and go for more complex images as you get to grips with the 3D process.

YYePG Proudly Presents, Thx for Support



## 7 Final *adjustment*

With the new RED channel still selected, use the move tool to adjust it. This may take a little fine tuning as you align the images. Click onto the RGB composite to view with your glasses as you progress. You may need to move the RED channel up or down as well as left and right, until the image becomes clear.

## 8 Crop *image*

Depending on how much you have had to move the channel, you will have to crop the image slightly in order to remove any edges that would spoil the 3D effect. Your 3D image is now ready to either view on screen, or print out.

# TOP TIPS!

### TAKE IT AS YOU SEE IT

**Possibly the easiest way of taking the stereoscopic images for your tutorial is to take one shot as normal, then move the viewfinder to the other eye and take the remaining shot.**
**Remember not to move the camera or yourself, up or down between shots. The two images must marry up on screen and if there has been any movement, this may destroy any blending.**
**This also applies to moving subjects. The more stationary the surroundings, the better the end result will be.**

### LOG ON TO...

**As well as our very own fantastic WDC site, use these websites as a source to give you some useful inspiration with your 3D stereoscopic photography.**

**http://graphicssoft.about.com/cs/photoshop/ht/3danaglyph.htm**

**http://www.sue-davis.co.uk**

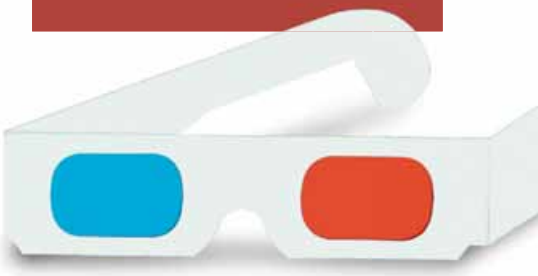
**http://xal3d.homestead.com/Galleries.html**

**And don't forget your glasses!**

**www.assistpoint.co.uk**

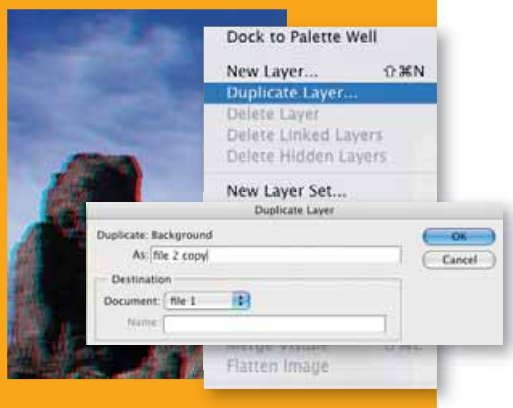
**www.eclipseglasses.com**

**www.ebay.co.uk**
**(search 3d glasses)**



**STEP 1.**
Open your first RGB image in Photoshop and duplicate the file.
**STEP 2.**
In file 1, select the RED channel and move it to the left about 20%.
**STEP 3.**
In the file 2, move the RED channel about 10%.
**STEP 4.**
Duplicate file 2 using file 1 as the destination. (File 1 should now have two layers with the top layer having less colour shift).
**STEP 5.**
It's a good idea to work with your 3D glasses on at this point. Either select the mask mode to work in, or use the eraser tool. Remove the unwanted background of the top layer to expose the underlying layer. You should see the sense of depth come through as you erase the background.

**Step 2:** Select the RED channel in the Channel palette. Move, using the arrow keys (to constrain), to the left




**Step 4:** Duplicate the layer of the second file, using the first file as the destination to ensure an exact overlay

YYePG Proudly Presents, Thx for Support

# Retouching *The Body*

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

## Most celebrity photographs in magazines are retouched to some extent. We reveal some of the techniques you can use on your photographs

**For many photographers, the digital age is one of manipulated images where there is little left of the original image. They see people's body shapes being altered and enhanced, their hair colour and eyes changed and the lines of age or fast living being eradicated by the click of a mouse.**

All this, they assume, is to make the final photograph more appealing to a wider, or targeted audience so that a product will sell more or that a celebrity will look more attractive.

What these purists seem to forget is that photographs have been altered and have continued to be so ever since photography began. Look at the work of the great Hollywood studio photographers such as George Hurrell or the great British photographer Cecil Beaton. A critical inspection of the negatives and prints of these famed photographers will show a multitude of retouching. This was an art in itself and on no account should it be dismissed as mere trickery. After all, even the great painters used poetic licence when they were painting a commissioned portrait.

When you embark on retouching a portrait photograph, you should be looking to enhance the image overall, and not be trying to create a completely different image. Handled sensitively, the computer should be seen as a tool to aid creativity and also to educate the photographer into different ways of seeing.

Adobe Photoshop has become the first choice for retouchers now that desktop computers have enough power to perform manipulations. The liquefy tool in particular – that would have needed expensive workstations with multiple processors and bespoke software – is now available to all of us.

YYePG Proudly Presents, Thx for Support

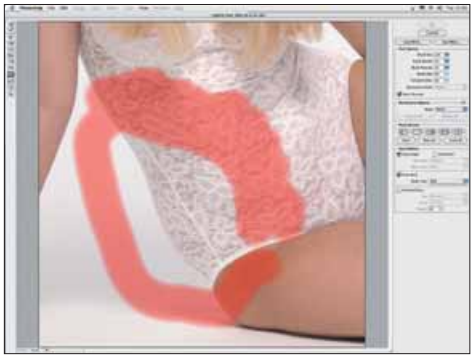
**Left:** The Liquify command displays its own interface and set of tools, but is accessed through the Filter menu

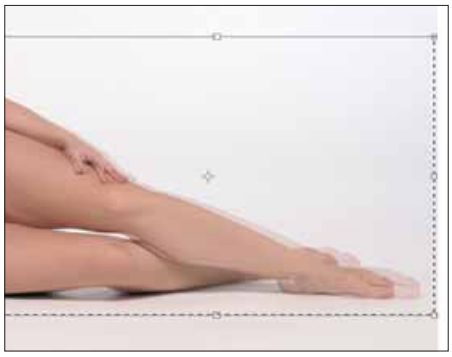
## TOP TIPS!

**Slimming down the waist, cheeks, and stretching neck, arms, legs etc: sometimes these things need to be done, as we are a culture that admires thin people yet have a glut of food available. Consequently few of us, celebrities included, are in perfect physical shape.**

**Emphasising features: If your subject has some great features ie, fine curves or piercing eyes, then it is a good idea to highlight these so that our attention is drawn to them and away from other less-attractive areas.**

**Generally manicuring the features: Take creases out of clothing, remove shiny spots from noses, add a healthy tan and generally tidy up the subject's imperfections until you have an image of perfection on your screen.**





## 1 Retouching *the waist*

The most useful tools for retouching the body are the WARP ,PUSH LEFT, and FREEZE tools. The warp tool moves groups of pixels with the cursor, while the WARP PUSH LEFT tool moves the pixels sideways as you drag in any direction. If you drag the cursor up, the pixels shift to the right, down to the left and so on. This can be a really useful tool for removing bulk from legs and waists as it can be gently brushed. Both these tools are destructive to the pixel and can leave nasty distortions if not used correctly. The FREEZE tool is a mask that stops any movement of selected pixels.

## 2 The *legs*

The transform tool stretches pixels and allows you to apply a number of distortions. In this instance I have highlighted the legs only and stretched them to make them appear more slender.
You will have to be careful when stretching body parts – for example, in this example it would be very easy to make this model's feet resemble divers' flippers.

## 3 The *skin*

The bronzed look: A healthy tan makes anyone look more attractive.
Here, I have masked out the background and clothing and used the SELECTIVE COLOUR command to tan the flesh by removing cyan, and then by adding magenta and yellow to the pale neutral skin tones. With selective colours, I then added +8 of magenta, +19 yellow and +6 black.

## MUSCLES

**The CURVES control is a powerful tool for adding contrast. Careful use of contrast can emphasise muscle bulk on men or subtle curves on women. Also by using the dodge and burn tool, you can 'paint in' or emphasise existing contours.**

**Left & Right:** Using curves can increase shadow depth

YYePG Proudly Presents, Thx for Support

# Retouching *The Eyes*

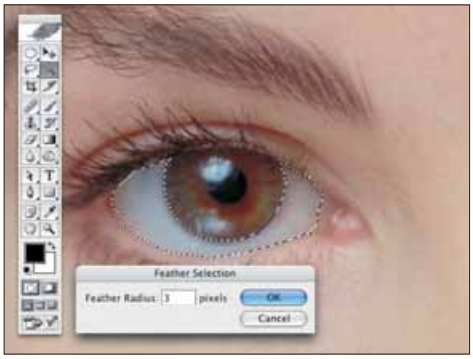
## Improve the whiteness and colour of eyes with these steps

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

**The eyes are the windows to the soul, it is said. But in some cases, the windows can be yellow, bloodshot and tired!**

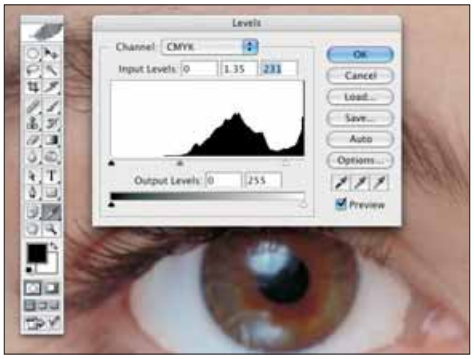
This tutorial will show you how to make your subject's eyes whiter and give them a new lease of life. We will cover a selection of methods and show you the best way to improve the luminance of white areas, and how to change iris colour.

## Improve *Whiteness*




### 1 Magic *wand*

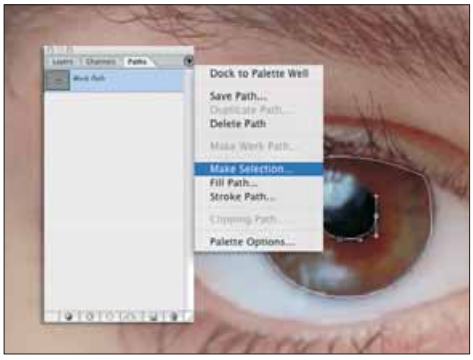
Zoom in close to the eye so it fills your screen. Select the magic wand tool, set the tolerance level (in the menu bar) to about 5. Click and select the white part of the eye. Press shift and click to keep adding to the selection until you're happy. Then do **Select >Feather** and enter a feather amount of 3 pixels. This will soften the edges of your selection.




### 2 Adjust *the levels*

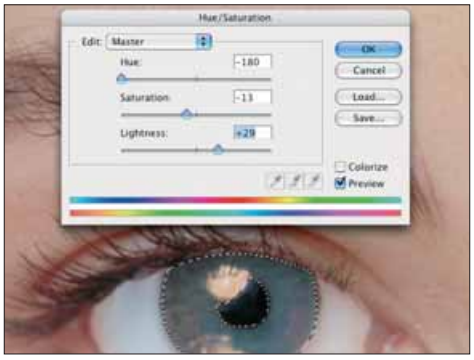
Select **Image>Adjustments>Levels** and start to drag the middle slider to the left. You will notice the eye gradually increase in brightness. Don't go too far as this will cause noticable edges to the eye. If it helps, before you select the levels, do **View> Show> Selection edges**, as this will hide the edges of the selection, allowing you more visibility.

## Change *The Iris*




### 1 Pen *tool*

Select the pen tool and click on the edge of the iris. Click futher round and hold down the mouse dragging out slightly to one side. This allows for a curve in the path. Continue round the iris to join up. Make another path on the inside, around the pupil. With the path palette open, click on the options button and select make selection. Enter a feather value of 3.




### 2 Hue *& saturation*

With your selection active, hide it as per the tutorial above (**View> Show> Selection edges**). Select **Image > Adjustments > Hue&Saturation** and adjust the sliders in order to gain the required colour. Again, remember not to overdo it as this may be noticeable.

## TOP TIPS!

**Remember that most of us have TWO eyes, so when making your selections, make two before you tackle any changes. It will be too difficult to match up any enhancements to each eye individually.**

**To add another selection, hold down shift on your keyboard. You will notice that the selection icon changes to a little plus sign. This lets you know that you can add to, or make a second selection.**

**To get a realistic iris colour, open an image of another eye colour you prefer. With the colour picker tool ( little dropper), select the iris colour.**
**On your original document, choose Fill>Foregound colour and select mode to Soft light. This will add the selected colour to the iris.**
**For a more controlled approach, choose undo and then Fade fill.**
**You can adjust the opacity slider to refill the colour back into the selection.**

YYePG Proudly Presents, Thx for Support

# Retouching *The Teeth*

Always wanted teeth perfect for the Oscars? Here's how!

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

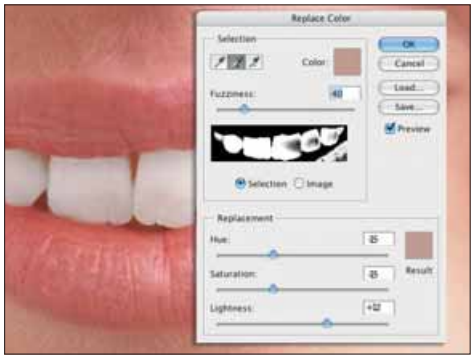
**We all hate the dentist, right? Now with the help of Photoshop, we can all have American movie star teeth.**

As with the eye tutorial (see the opposite page), many of these techniques will do the same thing – but below we will cover some other ways of selecting and enhancing colours. We will also show you how to repair chipped and broken teeth, and even how to replace a missing tooth.

## Improve *Whiteness*

### 1 Select *The Teeth*

Zoom in close to the teeth. With the lasso tool, draw a selection around the teeth, making sure you don't include any of the lips.
Hide the selection: **View > Show > Selection edges**.




### 2 Select *The Yellow*

Select **Image>Adjustments>Replace colour**. With the main picker, click on an area of yellow. The b&w image will update to include the pixels selected. With the '+ picker', click around the teeth over more yellow, until b&w image appears almost white. Adjust the sliders to remove the cast.

### REPLACE A TOOTH

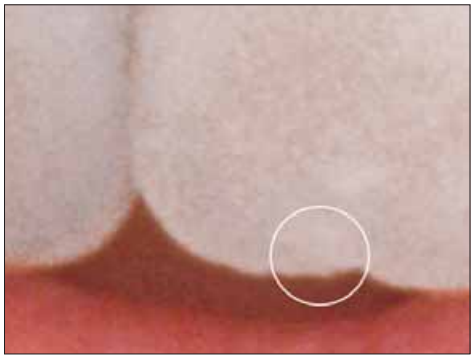
**STEP ONE: With the pen tool, draw around a tooth next to the gap. Make the path into a selection**

**STEP TWO: Copy and paste the tooth onto the image and move into position over the gap.**

**STEP THREE: Go to Edit > Transform >Flip Horizontal to flip the tooth. With the transform tool (Edit>Free transform), rotate the tooth to match the rest.**

**STEP FOUR: With a small soft eraser, soften the edges of the tooth. Flatten the image and save.**

## Repair *A Tooth*



### 1 Clone *tool*

Zoom right into the affected area of the tooth. Select the Clone tool and choose a suitable soft brush size.
Option click next to the area of the chip and start to apply. Work along the edges up to the lips.

### 2 Repair *the tooth*

Choose different brush sizes as you need, to apply to smaller areas. Keep zooming in to make fine adjustments. Use the blur tool to soften any noticabely hard edges. Don't go too far, as blurred pixels can be obvious.

YYePG Proudly Presents, Thx for Support

# The Patch *Tool*

## You don't need to spend a fortune on cosmetic surgery to look good. Improve your looks with the Patch tool

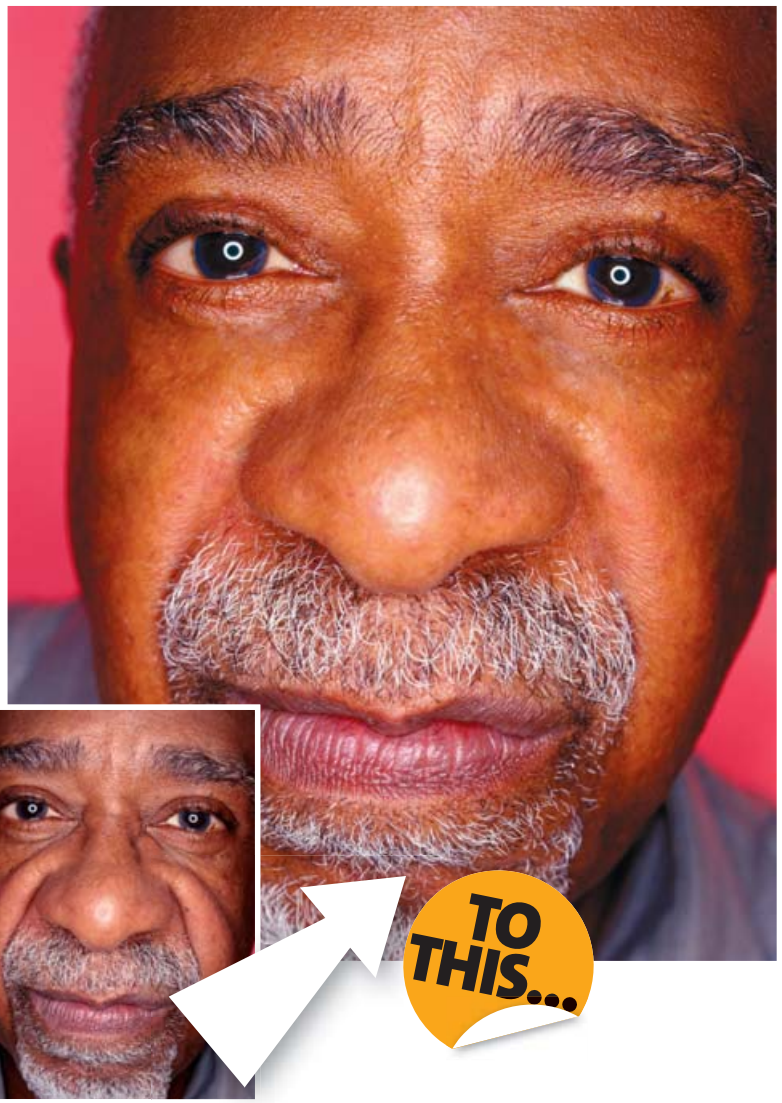
**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

**This image may be taking it to extremes but it's a great example to show you how to use the astounding Patch tool as an alternative to the Clone Stamp tool.**

The Patch tool is a new addition to Adobe Photoshop 7.0 and it works in a similar way to the Healing Brush tool.

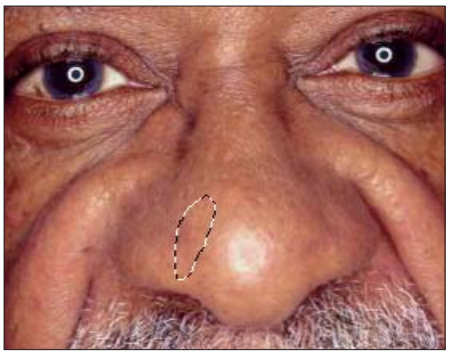
It's so simple that even a child could master this tool – you simply draw a lasso around the area you want to 'repair' and then drag the selection to a clean area that you could use as the source. Just release your mouse button and the job's done, as the software will automatically take the 'clean' area and blend it into the original selection. It's as easy as that!

Why don't you try the technique below with one of your own photographs?




## TOP TIPS!

**Once you've made a selection, if you Ctrl+click, a drop-down menu will allow you to change your selection from destination to source or vice versa**



### 1 Convert *modes*

Open your image and then drag the background icon onto the new layer icon in your layers palette (this will allow you to keep an original copy to refer back to). Then select the Patch tool from the toolbar (shortcut = J).

### 2 Select *swatch*

The character in our image has lots of deep wrinkle lines – slowly select them with the patch tool lasso. If you release the mouse button, you'll see the 'marching ants', and your destination point has been made.

### 3 Paint *brush*

Grab the selection and drag it to an area of the face that is relatively blemish-free. Once you're happy release the mouse button and the filter will do its magic. Keep repeating until your final image is 20 years younger!

YYePG Proudly Presents, Thx for Support

# 25 Top Tips

These are our favourite Elements tips to make your life easier and your pics better

## TURNING THE STRAIGHTEN TOOL ON ITS SIDE

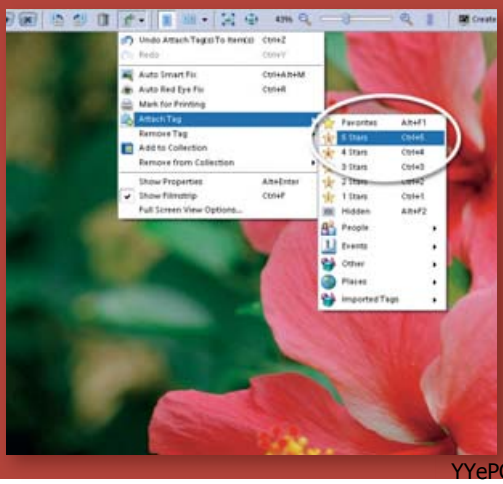
So you think the Straighten tool in Elements 4.0 is a cool new addition to your editing arsenal. Well why not? Being able to reorientate crooked horizons by drawing a straight line along the demarcation point between sky and ground is a simple solution to correcting photos that have been taken slightly askew, but the real power cheat is the way the feature can be used to straighten vertical picture parts. Choose the Straighten tool, then hold down the Ctrl key while drawing a line (click-drag the mouse) alongside a part of the photo that should be vertical. Release the mouse button then the Ctrl key, and the photo is automatically rotated to the precise degree. All that is left to do is crop out the edge detail.

## INSTANT WARMTH

Create an instant sense of warmth to photos that are suffering from being too blue because they were taken on an overcast day, by employing the powers of the Adjust Color for Skin Tone feature. This will switch the cold feeling of the photo to one that is more reminiscent of hot, balmy afternoons.

## SELECTING FAVOURITES IN FULL SCREEN MODE

Anyone who has played with the View Photos in Full Screen option (select thumbnails in the Photo Browser workspace and then press F11) in Elements knows that this feature produces a quick slideshow displaying each photo in turn according to the settings that you make in the initial pop-up dialogue. What is not generally known is that, with a few quick keystrokes, you can add star ratings to your pictures while they are being progressively shown on screen. Ctrl plus numbers 1 to 5 attach 1 to 5 star ratings, with Alt F1 adding a Favorites tag and Alt F2 hiding the thumbnail altogether. These keystrokes ratings system makes the Full Screen mode a great way to edit the images from a recent shoot.



## OFFLINE STORAGE

Most Elements users create their catalogues (the thumbnail collections that you see in the Photo Browser workspace) from folders of images stored on their hard drives, or directly from their camera downloads. But the program can also generate catalogues from pictures stored on CD or DVD disks. When you **File > Get Photos** from your disk you have an option at the bottom of the dialogue that lets you keep the original pictures 'offline' (on the CD or DVD) but load proxy versions of the photos into Elements to use for browsing, searching, tagging and organising. If you try to make changes to the photo itself, Elements asks you to insert the original disk so that the program can apply edits to the full version of the file. Offline files are indicated with a small CD disk icon in the top corner of the thumbnail. If you don't select the Offline option in the Get Photos dialogue, Elements will copy the photos from your disk to the hard drive, then create a catalogue from this collection of files.

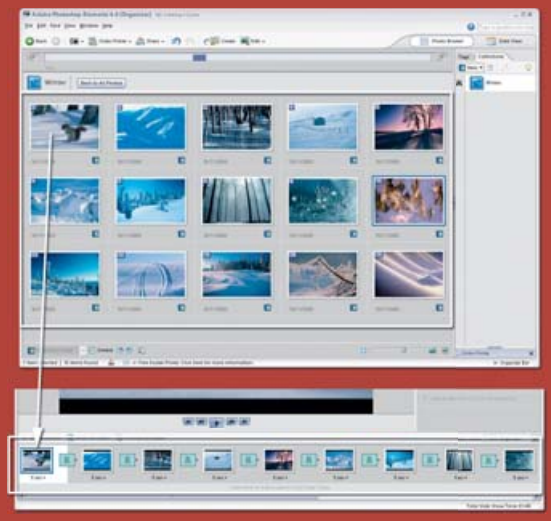
## PAINT YOUR WAY TO PRECISE SELECTIONS

So what does ten years of Photoshop practice get you? Well one thing is for sure, I can now make complex selections using the Lasso, Marquee and Magic Wand tools and a variety of 'add to', 'subtract from' and 'intersect with' actions with comparative ease. So you can imagine my surprise to find that Elements users can create equally as complex selections in seconds using naught but a few scribbles. Using the Selection Brush tool, you can create a selection by simply painting over the areas of the picture that you want included. To remove areas from the selection just hold down the Alt key and paint again. >>

YYePG Proudly Presents, Thx for Support

## USE COLLECTIONS FOR FAST SLIDE SHOWS

Many people think of the Collections feature in Elements as another way of adding tags or labels to selected images. And in many respects this is true. Collections are another way of grouping photos with a similar theme, but the images that sit within a collection also have another property – they can be sequenced. Next time you double click on a Collections entry to display the images contained in the collection, notice that each is numbered (top left hand corner). Individual photos can be moved to a new location by simply click-dragging the thumbnail. Pre-ordering the pictures in a collection is a great speed cheat for making fast slide shows, as the sequence in the collection is reflected in the slide show editor.



## ADD CAPTIONS TO MULTIPLE PHOTOS

You can add the same caption to multiple photos quickly and easily by multi-selecting the thumbnails in the Photo browser first and then selecting the Add Captions to Selected Items option from the right-click menu.

## FAST EDITS

Though I am a big stickler for ensuring that I maintain quality enhancement practices at all times, there are still occasions when editing speed is more desirable than ultimate editing control. If haste is the order of the day then there is no quicker way to enhance a bunch of photos than to multi-select the pictures in the Organizer first and then choose Auto Smart Fix Selected Photos from the right-click menu. And there is no need to panic if you don't like the auto correction results, because Elements saves the original file along with the newly edited photo in a Version Set, which means that you can reverse the enhancement at any time.

## FACE TAGGING

Who says that all the 'face matching' security software that's employed in our major airports has no creative spin-offs? In what some might say is a strange application of the technology, Photoshop Elements can now locate and display the faces in not just one but a whole bunch of photos via the Find Faces for Tagging option. For those photographers who regularly create images of people, or groups of people, this feature alone will save loads of time. Just multi-select a variety of images, then choose the **Find > Find Faces for Tagging** option, and Elements will search through the photos, displaying the found faces in a special Tagging dialogue. Next, drag the tags to the faces (or faces to the tags) to add the label to the associated photo.

## SHOW ME THE PICTURES.....ON MY TV!

Media Center computers are starting to pop-up everywhere. These are the machines that let you watch, record and time shift live television, play music and show movies all from your humble PC. With the release of version 4.0 of Elements, Adobe has started to forge strong links with the software (Windows Media Center) that drives these home theatre computers. Now from inside the media center you can access Elements' catalogues and slide shows, directly providing options to display your photos or show your presentations on your TV. Similarly the output options from inside the new revamped Elements slide show editor now include specialist settings for Media Center display.

## PIXEL-BASED SEARCHES

The ability to search a series of pictures by filename, date taken or even some obscure metadata entry is nothing special. Many editing and management programs can do that. But what about searches based on dominant pixel colours? The Photo Browser **Find > By Visual Similarity with Selected Photos** option does precisely that. It uses the colour and tones in the selected thumbnail (or thumbnails) as the basis for locating other photos in your collection that are similar. The program then displays the results, arranging the most similar results first and successively less-exact matches next.

## MATCH PHOTO FORMAT TO PAPER PROPORTIONS PERFECTLY

Next time you want to ensure that a photo will fit perfectly on a specific size of printing paper, reach for the crop tool. Select the correct proportions from the options in the Aspect Ratio drop-down menu and then proceed to crop the photo to the format of the printing paper.

## IMPORT DON'T INPUT YOUR CONTACTS

With the Order Prints and Photo Email features making use of the email and address details from the Elements Contacts Book, adding in a list of your nearest and dearest could be quite a task. But rather than retype all this data, simply import the contacts lists from other programs on your computer. Select **Contacts Book** from the Edit menu, then click the Import button. Choose the program where the list is stored, then click OK. The contacts and their details are automatically imported and ready to use.

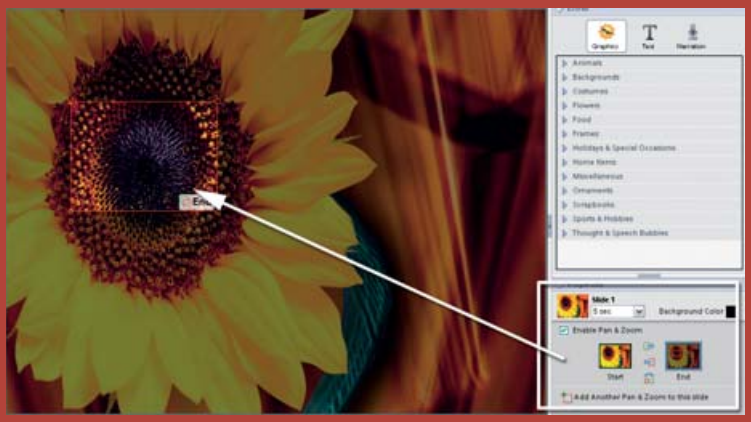
## RED-EYE CORRECTION ON THE FLY

Next time you have to correct the red-eye in a bunch of party photos, try the Red Eye Removal Tool in Elements. Long before this beauty ever appeared in Photoshop, Elements users had been using this one-click wonder to correct the red eye in their flash photos. Simply select the tool and click on the red part of the eye. Elements determines the extent of the red and converts the colour to a more natural dark grey. If the program is having trouble removing all the problem colour, try click-dragging a marquee around the offending pupil.

YYePG Proudly Presents, Thx for Support

## LOVE PHOTO BOOKS BUT HATE THE TEMPLATES?

Many users love the Bound Photo Book feature but don't like the pre-made templates that come with it. If you want to take back some design control, then create each of the book pages (complete with text, images and backgrounds) individually as Elements documents and then insert these pages as full-page photos into the Full Bleed book option in the creations wizard.

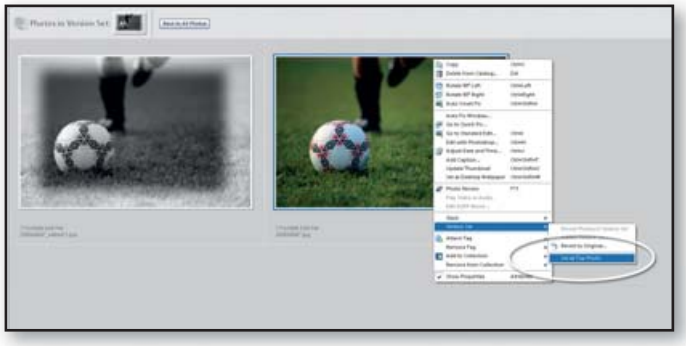


## ANIMATED STILLS

Is the over use of the 'spiral', 'horizontal blind' or 'coarse dissolve' transitions of home made slide presentations driving you crazy but you still want to add some movement to your otherwise still show? Take a look at the zoom and pan options in the new slide show editor. This feature provides the option to gradually zoom into, or pan across, the surface of a still photo as part of the presentation. The effect can be used to produce very dynamic results and is similar to the techniques that professional documentary film makers use in order to animate historical documents.

## SAVEABLE UNDO - VERSION SETS

The Version Set feature in Elements is a terrific tool to use when you want to produce a range of editing outcomes from a single photo. As you make changes to the file in the Editor workspace, be sure to save each different enhancement outcome as part of the version set (use the checkbox at the bottom of the Save As dialogue). Now when you close the file, the saved stages of the edit process are stored along with the original. Using the right-click pop-up menu you can elect to display the photos in the set and then promote any version to the top of the set.



## MULTIPLE FILE PROCESSING

One of the little-used features of both Photoshop and Photoshop Elements is the ability of these programs to process multiple files from one format and size to another. Automating such tasks makes the job of supplying a series of images for the production of a website a much easier and less time-consuming proposition. In Elements, start by multi-selecting the files in the Photo Browser (organizer) workspace. Next select **File > Export > To Computer** and proceed to choosing the file type, size, compression, common filename and location of the converted images. Click the Export button to process the images.Photoshop users have similar abilities when using the Image Processor script located in both Bridge (Tools > Photoshop > Image Processor) and Photoshop CS2 (File > Scripts > Image Processor).

## STRAIGHT STROKES

Draw straight strokes with the Airbrush, Brush, Pencil and even the Eraser tool by holding down the Shift key and click the mouse button once to mark the beginning of the line and then click a second time to mark the end of the line. Successive clicking will continue to draw straight lines from the position of the previous mouse click to the new one. Complex straight edge designs can be constructed easily using this technique.

## NO AUTOMATION IN ELEMENTS? NOT TRUE

Die-hard Photoshop users often pooh-pooh Photoshop Elements for its lack of automation features, pointing to the batch-processing abilities of the program's bigger brother as proof that no serious photographer would use anything else. But hidden away under the File menu in the Elements Standard Editor workspace is the Process Multiple Files option which gives Elements users a level of automated processing that even Photoshop users would have to admit is impressive. With the controls contained in this single dialogue, you can rename, resize, change file formats, adjust contrast, colour, levels, sharpness and even add a watermark (labels) to files contained in a folder or already open in the workspace. For quick, efficient processing of multiple photos this is certainly the place to start.

## CHANGE BACKGROUNDS WITH EASE

One of the hardest steps in the process of changing the background of a photo is the erasing of the original background. If the results of this action is convincing then you are well on your way to a successful montage. One option not often used is the Background Eraser tool. Nestled with the other Eraser tools, the pointer for this feature contains two parts – a circle (the size of the selected brush) and a crosshair in the centre. To erase, simply move the crosshair over the areas that you wish to remove.

## MULTIPLE PRINTING & DISTRIBUTION

You know the story. You're the only one at the family reunion who remembered to bring a camera and now every uncle Tom, Dick and Harry (and that's not mentioning your aunt's requests) wants a copy of the photos you took. I'm sure, that like me, there are plenty of readers who just don't have the time to spend the next few weekends printing and posting the pictures to your favorite relatives. Well, sigh no more. The Order Prints pane in Elements provides a print and post solution with drag-and-drop simplicity. After adding in the addresses of family members, simply drag the picture from the organizer work space onto the print pane and a print order will be created. Next, click the Confirm Order button and the order is sent to an online print provider such as the Kodak Easy Share Gallery. Add in some credit card details and the pictures will be printed and posted out to your relatives in a matter of days.

## WHERE'S MY LAYERS?

Want to select a layer directly from the workspace rather than the layers palette? Move the mouse cursor over the picture and then right-click to display a pop-up menu of all the layers present at that point. To choose a layer, simply select it from the menu. This layer then becomes the active layer. Keep in mind that the pop-up menu will only display those layers with a picture part directly under the mouse cursor. If a layer is transparent at the point of the cursor it won't be listed in the menu.

## ASSIGN A PROFILE WITHOUT CHANGING A PIXELS

In version 4.0 of Elements Adobe completely transformed the colour management system to make it easier to use and understand. Essentially you can choose between a screen-based workspace that use sRGB or a print one using AdobeRGB. Selecting one of the options in the Image > Convert Color Profile menu will convert the picture's color to the selected color space. However if you press Ctrl/Cmd when selecting a new profile, it will apply the profile without converting. This gives the image the appearance that it has been converted but maintains the underlying colors of the original. This option is the same as Photoshop's Assign Profile command.

## TRACK YOUR CHANGES

After a long editing session it can be difficult if not impossible to remember the enhancement steps that you used to arrive at the end result let alone the order that you applied them in. This is where Photoshop's History Log can help out by providing an ongoing record of the precise changes that you make. Activated in the **Edit > Preferences > General** dialogue, the feature tracks your adjustments and stores them either in the file's metadata, as a separate text file or both.

YYePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

# Restore *An Old Photo*

We show you how you can bring your old, treasured colour photos back to life

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

**Memories are made of these... or so the song goes. Old photographs are no exception. These little treasured snapshots of our history are unique and much prized by all of us. But of course, over time, that history takes its toll. It may only seem like yesterday, but our photos from the Sixties and Seventies are now rapidly ageing.**

Early automated photographic laboratory technology led to poor fixing and washing of prints. Emulsions don't stand the test of time particularly well when under adverse conditions, especially when kept in 'sticky' albums and hung on a wall near the sun. Over the years, the colours begin to fade to yellow and gradually disappear. In this tutorial we will help you to bring those colours back to life and renew any damage to the image.

Of course it's not always that easy to remember the true colours of an old photo, the clothes being long since discarded, and of course hair changes colour as we get older, too. So a sense of 'artistic licence' is required for some of your badly damaged prints.

## SCAN THE IMAGE

First, clean your flatbed scanner, removing all dust and hairs from the glass. This should always be done as a matter of course, but it is essential with scanning old photos – after all, why make more work for yourself?

After giving the print a dust off too, scan the image at a high enough resolution to give you enough pixel information when zooming in. In this example, we scanned in at 300ppi: this would give us enough information to print at least twice the size of the original.

You may feel that you want to adjust the scan using the scanner's auto functions, but it is probably better to have more control and do all your refinements in Photoshop.

## SAFETY FIRST!

First, as a standard of safety, it is always advisable to save a copy of the untouched image. If all else goes wrong, you can always go back and start again! Choose Save as>Copy. Select the crop tool and draw a marquee around the image, keeping it to the inside edge of the white border, as we will discard it. Rotate the crop marquee slightly to match that of the scan and press return to accept the crop. Drag the background layer to the new layer icon on the layers palette. This will enable us to work without affecting the original image. We can toggle on and off the background as we proceed to evaluate our progress. Leave the background invisible for now.

Colour photo restoration is always subjective, with many different requirements and a host of different methods of obtaining pretty similar results. As a personal preference, I like to work in the CMYK colour space, as this helps me predict the final output for printing.

The screen shots you will see in this tutorial will be in CMYK but if you prefer to work in RGB then that's fine and just use the steps as a guide.

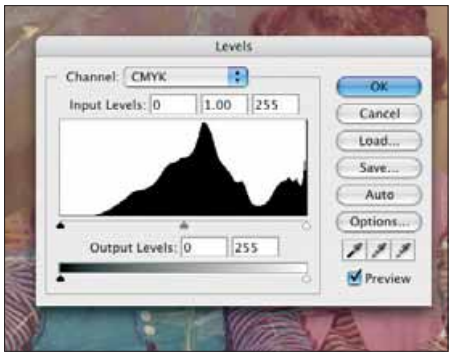
First we will adjust the tone of the image with levels. The tonal range of the image shows the contrast between the darkest pixels (black) to the lightest pixels (white). This will help us see how badly our colour cast is affecting the overall tone. Then the cast is removed with the use of curves and adjustment layers. The cast in our image is red so that is what we will remove to start, before enhancing any of the other colours.

Then comes the hardest part. Make good use of the clone tool and the healing brush when it comes to repairing the image. Never stick to the same brush size for too long. Keep your strokes more as 'dabs', and never repeat around the same area because repetition will occur.

Try to be inventive when it comes to reparing completely missing areas. I always look for similar information and copy and paste using the pen tool, laying it over the affected area and blending it in. There are no hard and fast rules: whatever looks convincing at the time will suit.

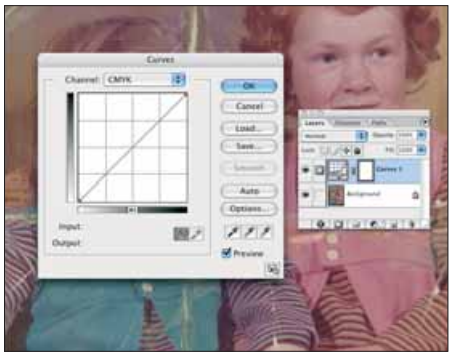
At the end of the day, just have fun with it and don't get too worried if it doesn't go right first time round. >>

YYePG Proudly Presents, Thx for Support




## 1 Adjust *tones*

Choose **Image > Adjust > Levels** and make sure the preview option is selected. Slide the shadow triangle on the right inwards. Adjust the tonal level until the details are just visible in the shadows. Don't overdo this as you may start to lose the information in the highlights. You can try Auto levels if you don't want to experiment.

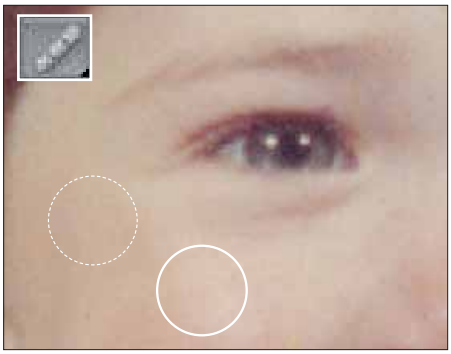


## 2 Adjsut *curves*

Select a new adjustment layer from the bottom of the palette, choosing curves. Adjust each curve to remove the underlying cast. In our example it is a red/magenta cast. Then try to adjust yellow to gain a more pleasing skin colour. Don't be too worried about correcting colours yet as we will come back to it later.

## 3 Remove *dust*

Now select the clone tool and start to remove all the dust spots around the image. Option click as close to the offending spot as possible for a convincing repair. Remember not to have your brush size much larger than the spot you are removing, and always remember to 'dab'.



## 4 Healing *brush*

Choose the healing brush when you come to important areas such as the face. The brush acts in a similar way to the clone tool, but it also retains the underlying texture. Again, work around the face, changing brush sizes as you go.

## 5 Missing *bits*

As you come across areas of completely missing information, techniques to rectify these will depend on your image. Try the pen tool to select a similar unaffected area, make the path a selection and feather by 1 pixel (**Select>Feather**) and copy and paste over the missing area. Use the Transform tool to rotate if required.

## 6 Final *clean*

To give the image a final clean, link all but the original background layer and choose merge linked from the layer options. Duplicate this layer and apply Gaussian blur (**Filter>Blur>Gaussian**) to soften any remaining spots that are there. Add noise (**Filter>Noise>Add noise**) about 2% gaussian. Change the layer blend to Darken.

## Creating *Skin Colour*

You have to remember that this is not beauty retouching. Don't expect an image, years old, to suddenly become like new, sharp and detailed.

But we can try to get as pleasing a result as possible, that will transform any old image into, at best, an 'improved' one.

Skin is a very tricky subject to tackle. With the two girls in our example, the girl on the left has a more ruddy colour, whereas the other is more neutral.

There are many ways to achieve a better skin tone, but it really is down to personal preference as to which you think is realistic. Generally the skin is adjusted using curves or hue and saturaion, but here is an alternative.

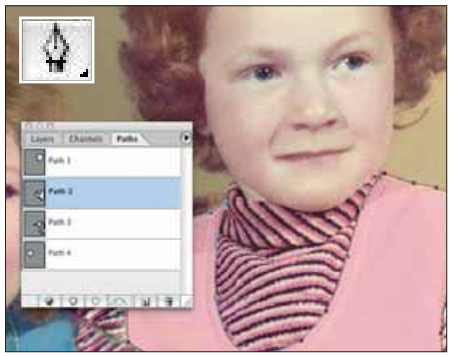
Try opening a new image. It would help the image was taken under similar lighting conditions. Use the colour picker from the tool bar and select an average skin colour.

With your path already drawn around the face and made into a feathered selection of 1 pixel, create a new layer. Start to paint inside the selection with a suitable brush size. Reduce the opacity of the layer down to roughly 15% or 20%. The underlying skin colour will show through and give an even colour range. Take care when brushing into the hair and around the eyes and the mouth. Continue to select dark and light areas of the new image and apply over the new layer, adjusting the opacity as you go.

YYePG Proudly Presents, Thx for Support

## 7 Layer *mask*

The image may feel slightly soft around the highlights, so to rectify this, apply a mask to the layer (**Layer>Add layer mask>Reveal all**). With a suitable brush size, paint back the faces and skin to reveal the sharper detail.



## 8 Make *selection*

With the pen tool, draw around an individual piece of clothing – in this example we drew round the little waistcoats. Double click on the path and save it. Now make the path a selection by choosing make selection from the path options. Feather 1 pixel to soften the edges.

## 9 Enhance *colour*

Select a new hue & saturation adjustment layer from the layer palette. Use the sliders to enhance the existing colour, changing from highlights to midtones and shadows. Repeat this path selection process on all the sections you feel need special attention. Remember to save each path for future use.

## 10 Toggle

When the image is near completion, toggle the original image background by bringing it to the top of your layer stack. Turn it on and off to get a good judgement of the work you've done so far. If necessary, make final overall tonal changes using levels and curves.

# TOP TIPS!

### THE EYES HAVE IT

Remeber, don't forget to pay attention to the eyes. It's very important that these are not ignored. Use the pen tool to select the whites of the eyes and make them into a feathered selection. Adjust the levels to bring back the whiteness. Don't go too far, as it will become too obvious. Finally, use a very small brush size with a white colour and just add a dot back in the reflection glints in the pupils.

### ROUGH SELECTION

It's sometimes a good idea to make a rough selection around the area that you want to heal. This protects what you're working on and prevents surrounding pixels from affecting the blend. Use M for the Marquee tool, L for the Lasso and W for the Magic Wand.

### PRESET PATTERNS

If you choose Pattern as your source (activated from the Options bar), you can heal an area with a preset pattern. The pattern will blend into the picture. Unlike the Clone Stamp, the Healing Brush doesn't have an option for controlling its opacity – but there is a way round it. Use the brush and then, to lower the opacity of your stroke, go to the Edit menu and choose Fade Healing Brush. In the dialogue box, use the slider to achieve the desired amount.

### PAINT IT BACK

This is one of the best features of Photoshop and is similar to the Clone Tool. It's mainly used for retouching blemishes and is a sort of 'intelligent' version of the Rubber Stamp tool that tries to limit the copying to the damaged part of the image, filling in the blemishes as seamlessly as possible. The cloned material has its colour and luminosity matched to the surrounding area.

## Change *The Original Background*

To save time and effort, it's worth thinking of ditching the original backgound.

Draw a path around the the subjects and right up around the background. Make the selection a mask, by clicking on the mask icon at the bottom of the layers palette.

Using the colour picker, select a light and dark area of the original background.

Create a new layer and drag it below the subject layer. With the lighter colour, fill in the background. Then choose a suitable brush size and begin to airbrush softly the darker colour near the bottom of your subjects. This will give a less flat feel to the background.

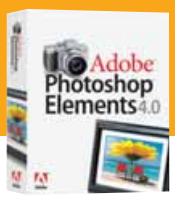
Add or subtract to the layer mask until you feel you have realistic edges.

YYePG Proudly Presents, Thx for Support

# Shadow Details

We show you how to reclaim lost details in dark shadow areas of your images

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS (MOVIE- CS)**
**LEVEL**
**BEGINNER**




**It's nearly summer! 'Hooray' I hear you say. Time to get out and shoot great pictures in the sun. And yes, summer is a good time to take photographs, with the bright sun-lit subjects that abound, who can complain?**

Well, YOU might if you don't tackle exposure and metering issues before you take your shots.

If you keep your camera on Auto function, then you are at its mercy. The aperture will close down to compensate for the brightness of the scene and in effect, make any shadow areas darker than they should be.

As you can see in our example (above) the family scene on the beach is taken with the camera pointed directly towards the sun (take care to avoid damaging your camera if you try this yourself). The image has exposed the little boy and the surrounding areas, but as we move outwards to the edge, the details become darker and darker. Some are entirely lost, making the image high in contrast.

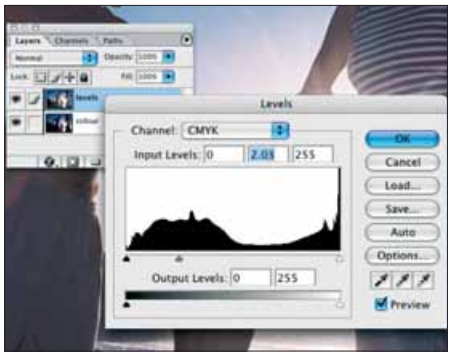
In this tutorial, we will try to regain those lost details as most of the information is still there in the image. We will create a layer stack, the layers of which will interact with each other by using layer blend mode and opacity.

In Photoshop CS, you will find the auto function Shadow/Highlight that will do this job for you. But if don't have it, then this is a very good alternative.

Remember to save the file as a PSD file if you want to retain the layers for futher editing later on. And one last point to remember, don't work on the original, save a duplicate first!

## 1 Duplicate *image*

Save a duplicate of your original image. Convert the copy image to **LAB** mode, **Image > Mode > LAB**. In the channels palette delete the a & b channels and convert to greyscale **Image > Mode > Greyscale** and then finally back to RGB. Name the file 'Lightness'.



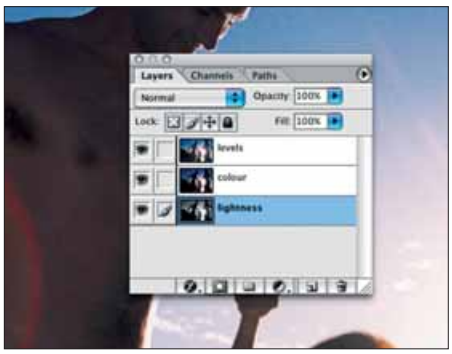

## 2 Levels *adjustment*

Open the original colour document, double click background to convert it to a layer. Name it 'colour'. Duplicate this layer by dragging the layer down onto the new layer icon at the bottom of the layers palette. Name it 'Levels'. Now increase the lightness of the midtones with the levels, **Image > Adjustments > Levels**

PreFG Proudly Presents, Thx for Support

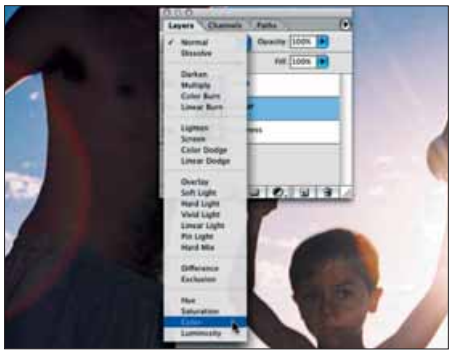
## 3 Duplicate *layer*

With your black and white 'Lightness' file open, duplicate the image into your original colour file, by selecting Duplicate Layer from the options fly-out menu. Select the colour file as your destination. Name the duplicate layer 'lightness'.



## 4 Layer *stack*

Now drag the the new lightness layer down to the bottom of the layer stack. You need to make sure that your layers start with the lightness (B&W) at the bottom, followed by the 'colour' layer and finally the 'levels' layer at the top.



## 5 Blend *mode*

Select the 'colour' layer and then change the layer blend mode to 'colour' from the drop down menu in the layers palette. Immediately you will see a lift in your shadow details.

## 6 Opacity *slider*

Finally, select the 'levels' layer and increase the opacity using the slider to gain more brightness in the overall image. Now, adjust this layer to suit.

YYePG Proudly Presents, Thx for Support

# Adjustment *Layers*

Adjustment layers allow flexible colour changes; learn their power

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

**If you've ever looked at an image and thought: 'What was I doing when I colour-corrected that?' you'll love Adjustment Layers. They are simply another way of doing the colour adjustments you'd normally do via Image>Adjustments, but with the option of re-editing them at any time, leaving the original intact.**

In addition, Adjustment Layers can be reduced in opacity, turned on/off, deleted, masked and modified with blending modes. One could describe them as very sophisticated acetates which you see the image through, and they have all the capabilities of the Image>Adjust commands. If you're still wondering what the point of all this is, let me outline a couple of different scenarios:

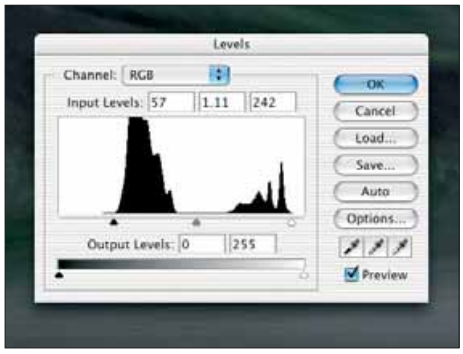
You've colour corrected an image, but when you look at it again the next day, the colour looks all wrong. It was too yellow to begin with, but you made it too blue. The only thing to do is another colour correction, taking it back a bit. You now find that the image is looking too dark, so you have to correct for that as well. The trouble is that every time you do colour adjustments back and forth, the file deteriorates, particularly when the adjustments contradict each other, as described here. With Adjustment Layers, all you'd need to do is double-click on the offending layer, which brings up the dialogue box, just as you left it yesterday, so that you can bring back the overcorrected blue. Unlike the Menu adjustments, which are set in stone, these are saved with the image and editable forever.

The second scenario is the adjustment that benefits 80% of the image, but has an adverse effect on some small areas. Simply take a suitable size brush tool, set the foreground colour to Black and paint on the image in the offending areas. Sometimes a gradient can be used.

The image here was shot from a train at 1/4 sec. I wasn't quite sure what I wanted from the colour, so I played a bit back and forth – something you can only do with Adjustment Layers. All I knew was that the original looked washed out, and that the lines of the movement needed to be teased out, as well as the depth. Although I have tested and deleted a couple of adjustments, below is a fairly linear description of what I did to it.

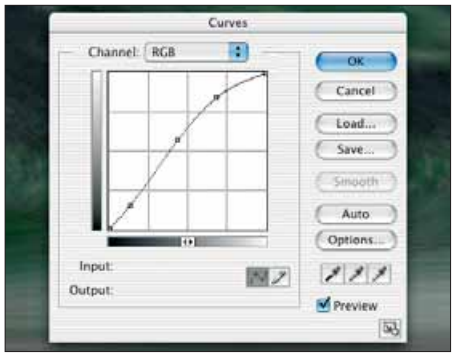
**TOP TIPS!**

**DRAGGING LAYERS** An Adjustment Layer can be dragged from one image to another. Try this if you've shot a few similar images with the same exposure. Put the images next to each other and activate the document you're dragging from. Drag the adjustment layer firmly and drop onto the other image. If you drag several, start with the bottom and work upwards, so the order remains the same.



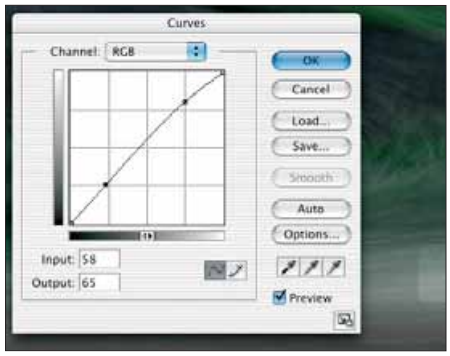

## 1 Make *layer*

Make a Levels Adjustment Layer: press the round black & white button in the Layers Palette and scroll up to Levels. Drag the white slider in to the first information on the graph on the right hand side. Drag the black slider in to the first information on the left side. Here I clipped off a few pixels. If the midtones are too dark/bright, drag the middle slider slightly left or right.




## 2 Curves *adjustment*

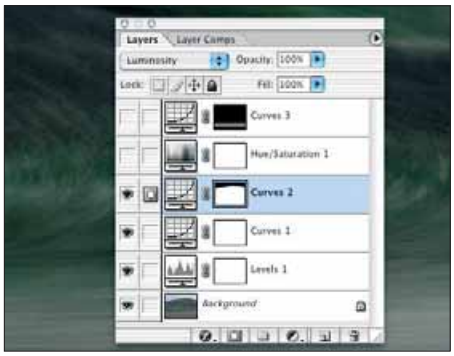
Open a Curves Adjustment Layer in the same way. If the image has a red, green or blue colour cast, go to the cast's channel and drag a point downward from the middle. If the cast is cyan, magenta or yellow, go to the opposite channel and pull the line up. Here I raised the green a little to get rid of a magenta cast. Toggle the Preview button off and on, to judge the change.




## 3 Another *layer*

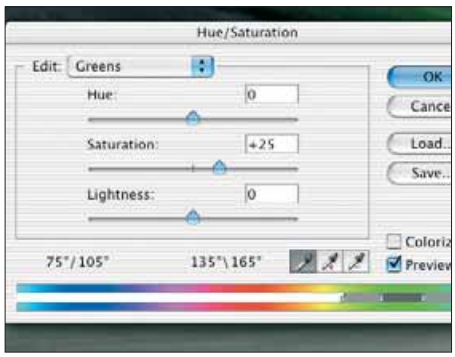
Make another Curves Adjustment Layer. Use the composite RGB channel to make the mid-tones lighter (lift up), darker (pull down) or more contrasty. In order to get more contrast and brightness, raise the highlight and lower the shadow. A steep S-curve like this can distort the colour so I changed the Blending Mode to Luminosity, limiting the adjustment to contrast only.

YYePG Proudly Presents, Thx for Support



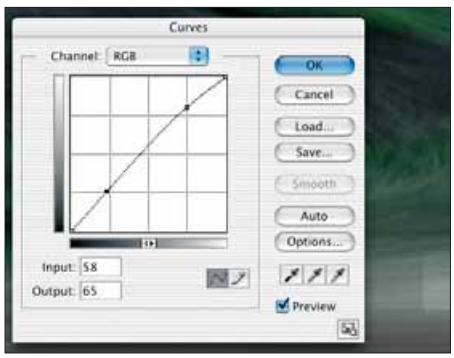

## 4 Separate

Separating the colour adjustment and contrast on two layers gives freedom to mask off areas of one layer without affecting the other. Some areas can be adversely affected by the contrast adjustment, especially highlight areas with crucial detail. Take a Brush tool, set the foreground swatch to Black and about 30% opacity. Now the area can gently be masked back.




## 5 Hue *& saturation*

Make a Hue Saturation Adjustment layer. To increase saturation of all colours, drag the Saturation slider right. I scrolled the Edit range to green and saturated it +25, checking the colours were still well within gamut: **Menu>View>Gamut Warning**. Saturating can introduce unprintable colours. If you get a grey overlay, move the slider to the left until it disappears.




## 6 Extra *depth*

I wanted to give the image extra depth. A bright horizontal area could do with being even brighter so a selective adjustment was needed. Make a test patch with the marquee tool then make a new adjustment layer. Having lightened the test patch, I then took a Brush with White as the foreground colour and painted in the adjustment exactly where I wanted it.

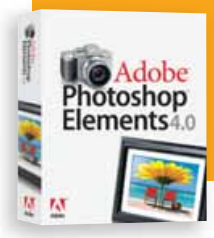
YYePG Proudly Presents, Thx for Support

YYePG Proudly Presents, Thx for Support

# Create a Website

## A weekend with nothing to do? Now is a great time to root out cherished photos and make an online gallery

**SOFTWARE**
**ADOBE PHOTOSHOP ELEMENTS**
**LEVEL**
**ADVANCED**




**Unlike in the early days of the internet when budding website developers needed to understand HTML coding in order to put their pages together, many photo-editing packages now have website-building wizards that are designed to guide you painlessly through the whole process. In this tutorial I will show you how easy it is to convert a series of photos into a fully functioning gallery site using the HTML Photo Gallery wizard in Photoshop Elements.**

The HTML Photo Gallery wizard turns a bunch of photos into a fully linked website quickly and simply. It is one of the Photo Creations options that are provided in both version 4.0 and 3.0 of Photoshop Elements. In earlier versions of the program look to the File > Automate > Web Photo Gallery feature to create websites easily. It is possible to jump straight into the HTML Photo Gallery feature by clicking the Create button on the Photo Browser's shortcuts bar and then choosing the option from the list of Photo Creations in the displayed dialogue, but in this technique I would like to introduce you to a slightly different approach.

### ELEMENTS COLLECTION

Start by opening the Photo Browser or Organizer workspace (choose the View and Organize Files from the Element's Welcome screen). Now search for and multi-select (Ctrl plus left mouse click) the pictures that you want to include in the gallery from those in your catalogue. Usually at this point you would select the HTML Photo Gallery option from the File > Create menu, the selected photos would be transferred automatically into the features dialogue and you would create the site; but instead we will add the photos to an Elements' Collection. One advantage of using a collection as a starting point for transferring the files to the HTML Photo Gallery feature is that pictures in collections can be sequenced. The position of each photo in this sequence is indicated by the number in the top left corner of the thumbnail. This sequence is then reflected in the positioning of each image in the website gallery. So rather than have the images randomly appear in the gallery, add your photos to a collection first, display the collection and then click-drag the thumbnails around the collection space to finetune the location of each photo.

Once inside the HTML Photo Gallery wizard it is a comparatively simple matter of selecting the style of gallery to create and then working through the settings in each of the tabbed sections – Banner, Thumbnail, Large Photos, Custom Colors – adding text and adjusting size, compression and caption controls as you go. The settings available for adjustment will change according to the style selected. Not all settings are available with all styles. Once the details are locked, just add a place to save the files and folders that will be created, and click the Save button. Elements then proceeds to resize and optimise the picture files to be used as both the thumbnails and larger gallery photos in the site. In addition the program generates the necessary pages, adds in the pictures and captions or titles information, and finally links all the pages together so you can jump from one to the next.

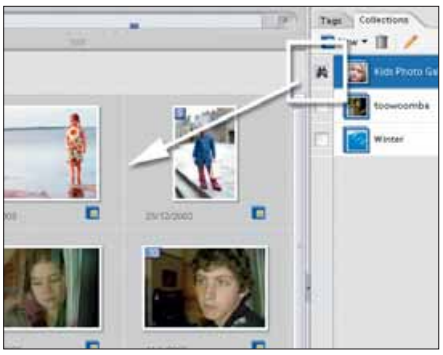
>> Proudly Presents, Thx for Support

## 1 Select *photos*

Enter the **Photo Browser** (Organizer) workspace and select the photos that you want to include in the gallery. To select a series of photos click on the first thumbnail then hold down the **Shift key** when you click on the last photo. All pictures in between will be selected. To select individual photos that are not in a row hold down the **Ctrl key** and click on each of the pictures to include.

## 2 New *collection*

With the photos now selected open the Collections pane (**Window > Collections**) and create a new collection entry by clicking on New and adding the details for the website collection into the dialogue displayed. Click **OK** to add the collection to the list in the panel. Click-drag the new collection entry into the browser space and onto a selected photo. This adds the photos to this Elements collection.



## 3 Add *details*

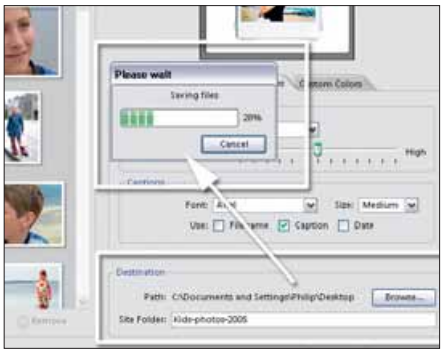
To display just the photos that are part of the web collection, click onto the empty box to the left of the Collection entry in the Collections pane. Elements will display only the files that are part of the collection. Click on each photo in turn and add a caption by typing into the **Properties** pane (in the General tab). Adjust the position of each photo in the sequence by click dragging the thumbnail to a new area.

## 4 HTML *gallery*

Select all the photos in the collection, then choose **File > Create > HTML Photo Gallery**. Elements will add the selected photos to the HTML Photo Gallery dialogue and display them in a thumbnail list on the left. The sequence of photos can be adjusted by click dragging individual thumbnails to a different place in the list. Extra photos can be added by clicking the Add button, or removed from the list by selecting the thumbnail and clicking on the **Remove** button.

## 5 Adjust *settings*

Select the **Gallery style** from the drop-down menu at the top of the dialogue. A preview of the style is displayed in the thumbnail beneath the menu. Next adjust the settings and fill out the text boxes in the Banner, Thumbnails, Large Photos, and Custom Colors sections. Not all settings will be available for adjustment with all website styles. Be sure to select the Captions option in the Large Photos section as this will place the text you input in step 3 next to the photo on each web page.




## 6 Create *gallery*

Finally, input the destination directory and a name for the site folder. Click **Save** to instruct Elements to start creating the website. The program then goes about constructing the pages, resizing and optimising the photos to include, and then linking all the components together. The completed site is saved in the website folder and contains the front-page file, called index.html and up to three folders (images, pages, thumbnails). The site is now created.

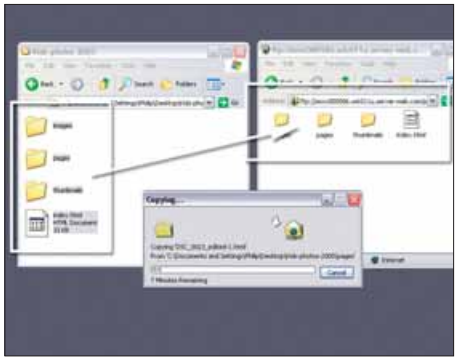
## Template *Design*

There are a wide range of templates supplied with Photoshop Elements to be used in conjunction with the HTML Photo Gallery. Though the starting point for each of the templates is the same, you can customise the look to a certain extent by adjusting type font and size, image size, the caption and title details included and the site colours.

YYePG Proudly Presents, Thx for Support

## 7 Secure *ISP space*

Next, transfer all the files to some server space on the Net. I used the hosting space provided by my email company but you could use a free hosting service like the one from Tripod (www.tripod.lycos.co.uk). In the help pages for your provider, look for entries to do with 'Your Web space', 'Uploading files' or 'FTP' – that relates to the process used for uploading files). Input the FTP settings you find here into the Windows' Add A Network Place wizard (located in My Network Places) to create a web folder.



## 8 Upload *files*

After completing the steps in the Add A Network Place wizard, open the new web folder from My Network Places. You may need to input your FTP login and password. Check with your provider for these. Next you will see a window showing the space available to you on the server. Locate the folder containing the newly created website files and directories, select all the sites components, then drag them to the open web folder. This action copies the files to the server space.

## 9 Test *the site*

Once the files have been transferred, test the site. The URL (web address) you use for the site will vary according to your webspace provider but usually it will be a combination of their site address and your login name. Don't underestimate the importance of testing. A website is made of many small files that link together to form the pages. Not uploading just one of these files will cause some aspect of the page not to function properly so check each page as well as the main or index pages.

# TOP TIPS!

### DESIGN A BESPOKE GALLERY

**If you have a creative mind you may be able to design a much more impressive website using a dedicated web design program that you could get from the Elements or Photoshop web templates, and it'll be more personal than the downloadable templates found elsewhere. You'll be starting with a blank page, so the final look of your website is limited only by your imagination – plus one or two technical constraints. Be careful not to overdo it with long-winded flash animations though, as they can be extremely irritating, especially for those with a slow internet connection.**

**CHECK OUT:**

- **Macromedia Dreamweaver: The Photoshop of web design, aimed at pro web designers (£335)**
- **Adobe Go Live: Also part of Adobe's Creative Suite (£335)**
- **NetObjects Fusion 9: Simple and versatile ($199)**
- **Serif WebPlus 9: Simple and inexpensive (£59)**
- **Freeway Express 4: Lite version of Mac-only option ($99)**

### USE A WEB-HOSTING SITE

**If you want your own website but lack the time, imagination or technical know-how to design one from scratch, there are numerous companies who can provide a service for you. For a set fee, and perhaps a monthly or annual hosting fee, they can provide a selection of templates into which you simply drag and drop your images. They provide you with a domain name (your own dot.com or dot.co.uk address) and host the site for you, so you don't have to worry about server space.**

**CHECK OUT:**

- **www.clikpic.co.uk**
- **www.zsites.co.uk**
- **www.mrsite.co.uk**

## Other *Software*

**PHOTOSHOP ELEMENTS 2.0 – This version of Elements doesn't contain the Photo Browser or Photo Creation workspaces but you can still create your own website using the *File > Create Web Photo Gallery* option. The dialogue is a little different from the one included in version 3.0 and 4.0 but the functionality is very similar.**

**PHOTOSHOP – In CS2 it is possible to multi-select images to include from the Bridge workspace before selecting the *Tools > Photoshop > Web Photo Gallery* feature. As with earlier versions of Elements the wizard dialogue is a little different to the one displayed in our example here, but many of the controls and settings are exactly the same.**

**PHOTOIMPACT - In addition to being able to make your web pages Ulead PhotoImpact also provides an automated slide show feature. Simply add the slide show action to a rectangular slice on an existing web page, add your pictures adjust the slideshow settings and you're done. When the page is displayed pictures flick from one to another automatically.**

YYePG Proudly Presents, Thx for Support

# Putting It *All Together*

We show you how to improve your landscapes with your new skills and just a few clicks of your mouse

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

**Taking pictures of landscapes can be one of the easiest forms of photography. Let's face it, there are no people for you to try to organise, no waiting for animals to give that all-important position and no tourists (with any luck) to get in the way of your shot.**

You would like to think it would be just a case of setting up your camera in front of a few hills and just taking the shot. But of course you'd be wrong. Yes, landscapes can be a more solitary experience, but it still requires a degree of discipline, effort and luck.

'Light' can make or break that illusive money shot. As all good tutorials will tell you, one of the secrets to a great landscape can rest on what time of day it is and how the light falls on your scene. The best times of day can be morning or afternoon as the low sun can cast long shadows that in turn create deep textures and a sense of three dimensions. Alternatively, a dark winter's day with strong grey clouds can convey drama and mood.

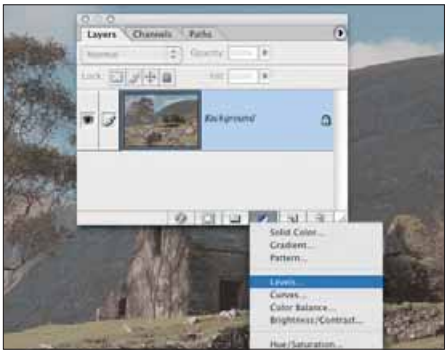
Either way, you can find yourself standing with your camera for a long time, waiting for the correct light conditions. With the help of Photoshop, you can increase the likelihood of a successful shot in the editing process by applying some basic corrections and enhancing filters.

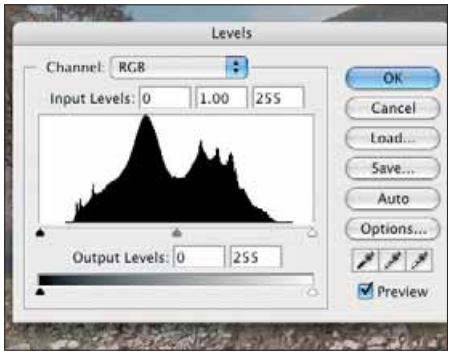
In this tutorial we will look at how to create an adjustment layer, adjust the levels in the image that enhance the tonal qualities, colour saturation, and unsharp masking.

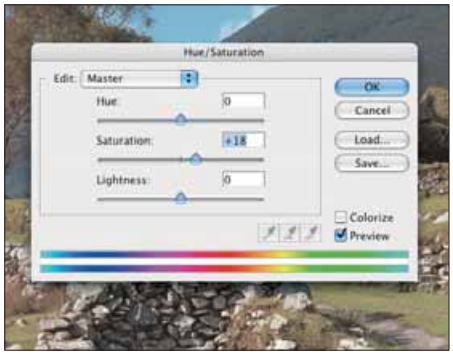
Like any photography, these enhancements are applied with personal taste, depending on what you wish to get out of the subject matter. In our example below, we need to punch up the colours, especially the greens and blues, we need to sharpen the detail in the trees and stone walls and we need to enhance the tonal values.

Although Photoshop can be an invaluable aid with your landscape photography, it's not a magic wand. If you are serious about your images, it is always advisable to spend more time on location getting it right in-camera first.

Remember also to bracket when shooting and shoot more than you need to, because a landscape can change dramatically within seconds as the clouds pass overhead or the sun sets.




## 1 Adjustment *layer*

From the menu bar choose **Layer > New Adjustment Layer > Levels**. Or you can choose the adjustment layer from the icon at the bottom of the layer palette. The icon is the fourth from the left and is a two-tone circle. The new layer will appear above the background image. The adjustment layer is a non-destructive layer that affects the whole image.

## 2 Alter *levels*

The levels palette displays a Histogram illustrating the tonal values of the image. The left slider is the highlights, the middle is the mid tones and the right, the shadows. Pull the shadow slider to the left to increase brightness to a desirable position. Adjust the mid tones either left or right. You can adjust individual colours from the drop down menu.

## 3 Hue & *saturation*

Create another adjustment layer, but this time selecting the Hue and Saturation option. Here we will increase the colour saturation. Choose the Blue from the drop down menu. Then use the Eyedropper tool to select the blue you wish to enhance and pull the Saturation slider to the right. Don't go too far or you will start to affect other blues.

YYePG Proudly Presents, Thx for Support

## 4 Colour *range*

Repeat this process with the greens, in order to bring out more punch in the grass and foliage. Use the + dropper to select a more dynamic range of colours or choose the - dropper to subtract colours. You can also click, hold and drag across a range of colours that you wish to select with the dropper tool.

## 5 Sharpen

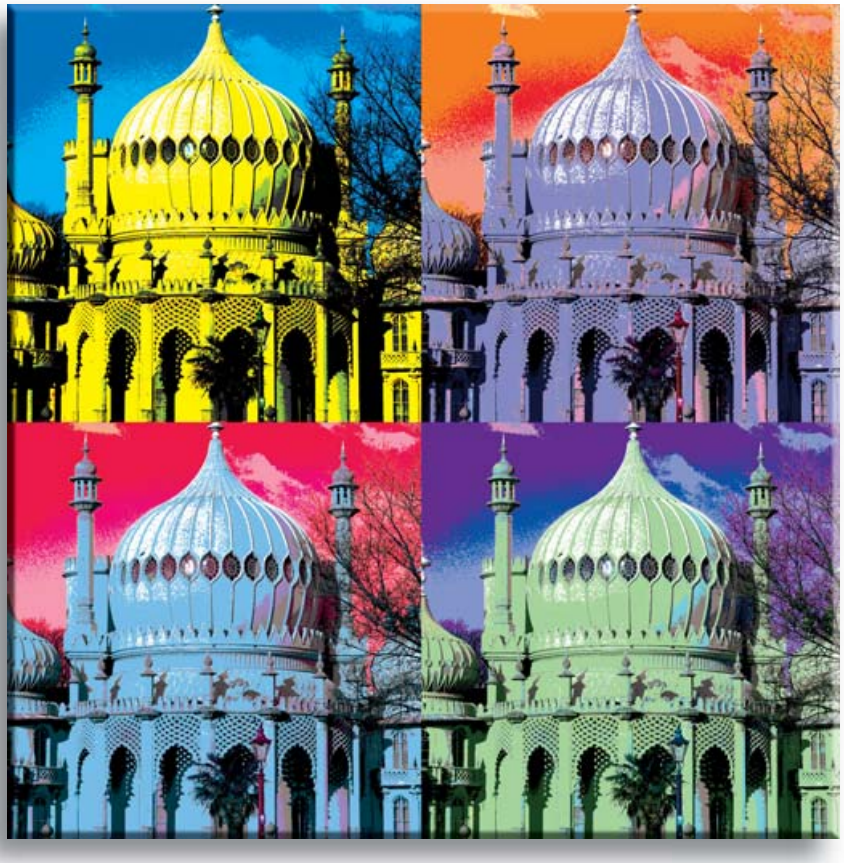
When you are happy with your colour and tonal adjustments, select the background layer, go to the menu bar and choose **Filter > Sharpen > Unsharp Mask**. In the palette options, drag the amount slider to the right. This increases the sharpness of the pixels, more noticeably around edges of objects.

## 6 Save *& close*

With adjustment layers being non-destructive, until you flatten the image, they can be accessed at any time. The image can be closed and reopened, the adjustment layer double clicked and re-edited.

YYePG Proudly Presents, Thx for Support

YePG Proudly Presents, Thx for Support



**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

# Create a *Work of Art*

We show you how you can make life – and your photographs – imitate art with the creative use of artistic filters

**Centuries before photography was invented or digital became the way to take and make pictures, artists had been creating great pictures using such diverse materials as chalk, pastel, pen and ink and, of course, paint.**

Now you can emulate the look of masterpieces using your own photographs as a starting point and adding the artistic 'look and feel' with a few well-chosen, but simple, digital embellishments.

In this tutorial we recreate four artistic styles from humble photographic beginnings, using enhancement steps and filters contained in Photoshop. While our demonstration was carried out in Photoshop, most of the rules apply to other software, like Paint Shop Pro.

## PREPARING THE PHOTOGRAPH

As with all good image editing, one of the first steps is to ensure a good composition. No amount of artistic intervention will make up for a picture that is badly framed in the first place, so using the example image as a starting point, the first job is to crop and straighten the photo. For this type of work the Crop tool is the best option. Click and drag around the area to be saved. Move the cursor outside the selection marquee and click and drag to rotate the image and hit the Enter key to complete.

Next we need to add a little contrast – most of the artistic changes that we will add to the picture work best when the photograph contains a good spread of tones from black to white (contrast). A flat image to start with usually produces flat results. To alter the contrast use the Levels feature (Enhance > Adjust Brightness/Contrast > Levels). Move the black and white points in towards the centre of the graph until they reach the first few pixels in the image. Now for the effects... >>

YYePG Proudly Presents, Thx for Support

# Pen *and Ink*

Using the Graphic Pen filter it is possible to simulate the effect of making a drawing of a photograph with a thin graphic arts pen. Close, overlapping strokes are used for the shadow areas, mid tones are represented by balancing strokes and with the paper colour showing through, and highlight details are drawn with a few sparse strokes.

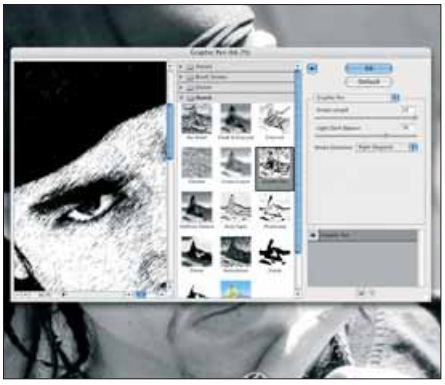
Image courtesy of Sheradon Dublin

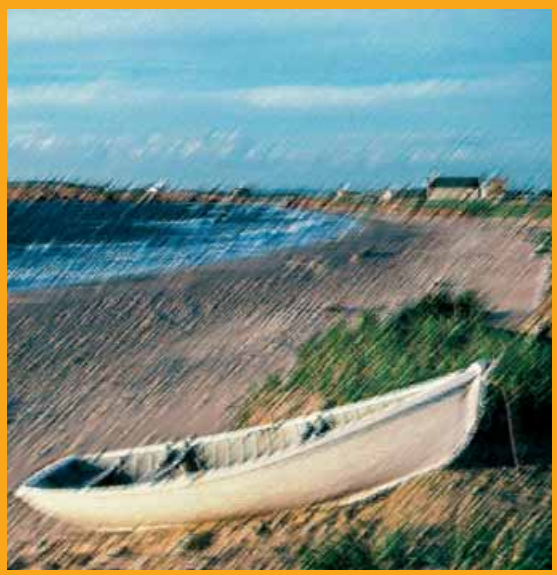
## 1 Apply *filter*

Set colours to default (foreground black, background white) by clicking the black and white squares in the toolbar. The Graphic Pen filter uses the foreground as the 'ink' colour and the background as the 'paper' colour. Select the Graphic Pen filter from the Filter>Sketch menu. Using the Preview window adjust Stroke length, Light/Dark Balance and Stroke Direction and click OK.

## 2 Change *colours*

To add a little more colour to your Graphic Pen 'drawings' select colours other than black and white for the foreground and background values. Double click each swatch to open the colour swatch palette where you can select the new colour. Here I changed the pen colour to brown and the paper colour to light cream.



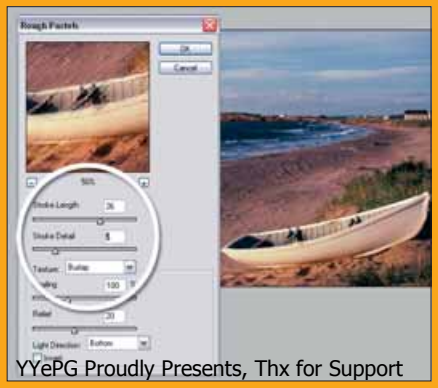


# Rough *Pastels*

As well as approaches like the pen and ink used above, another favourite with artists is the use of pastels or chalks on a roughly textured paper surface.
The tones of the picture are layered upon the paper's texture so that the image detail gradually emerges from the background as a combination of stroke, colour and texture.

## 1 Apply *stroke*

To create this effect we will make use of the Rough Pastel filter found in both Photoshop and Photoshop Elements. The feature contains two distinct control sections. The upper two sliders, Stroke Length and Stroke Detail, are used to adjust the way that the photographic tone is converted to pastel strokes. With the Preview window zoomed in to 100% move both sliders until you are absolutely happy with the mix of detail and tone.



YYePG Proudly Presents, Thx for Support

## 2 Change *texture*

When drawing with pastels, artists often use a heavily textured paper. The lower section in the filter dialogue is used to apply such a surface texture to your pastel image. Here you can select the texture type (canvas, burlap, sandstone), the size of the texture (scaling), the strength of the texture effect (relief) and the direction of the light that provides shadow for the surface. After making your texture selections, check the preview and readjust the stroke length and detail if necessary before clicking OK to complete.

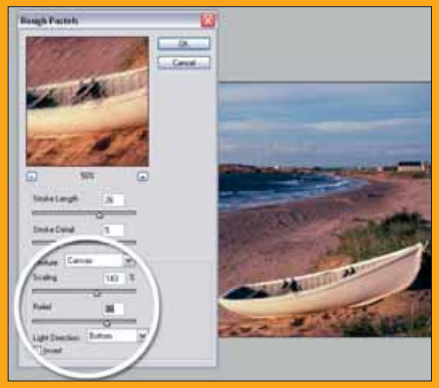


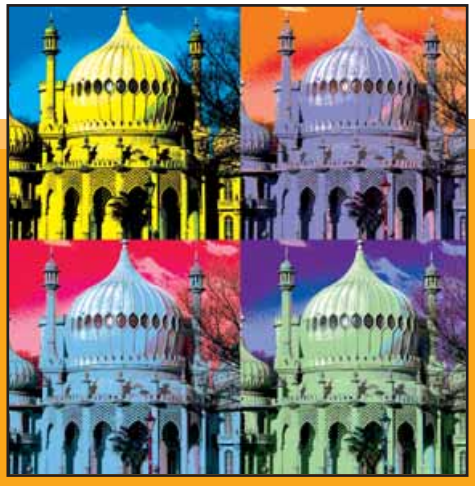
Image courtesy of www.ablestock.com

# Watercolour

If you want to create the feeling of a painted surface rather than a drawn one, the Watercolor filter in Photoshop or Photoshop Elements is a good place to start. With this feature the tone and hue of the original photograph is converted to daubs of semi transparent colour with the larger areas surrounded by a darker border edge. To make the effect even more convincing I have applied a texture to the picture after the watercolour conversion.

## 1 Brush and shadow

Start by opening the Watercolour filter from the Artistic option of the Filter menu. Next, with the preview set to 100%, adjust the Brush detail and Shadow Intensity to suit the picture. The third slider, Texture, is used to control the break up of the painted areas rather than any simulated paper texture. This comes in the next step. Click OK to filter.



## 2 Texturizer filter

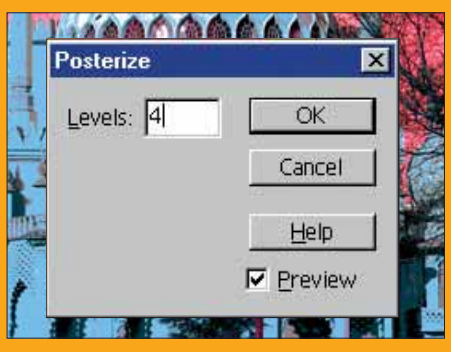
Now to add a surface treatment to the picture to really make the conversion to a watercolour painting complete. For this task we will use the Texturizer filter (**Texture >Texturizer**) which has the same controls and options that we looked at in the Rough Pastel filter. We can choose the type, scale, relief and light direction that will be used for the texture. Be sure to preview the effect of the settings at 100% before clicking OK to apply.

# Modern Art

Andy Warhol invented this unique style in the 60s with his Marilyn Monroe portraits and Campbell's soup cans. Now you can recreate his posterised effect using your own pictures. Warhol's images were constructed of very few colours which were applied in broad flat areas of the picture. Here we will use the Cutout and Poster Edges filters to recreate a Warhol-like look. However, similar techniques will enable you to achieve different Pop Art styles, like that of Roy Lichtenstein, who added a cartoon-like feeling by including a black line around coloured areas.

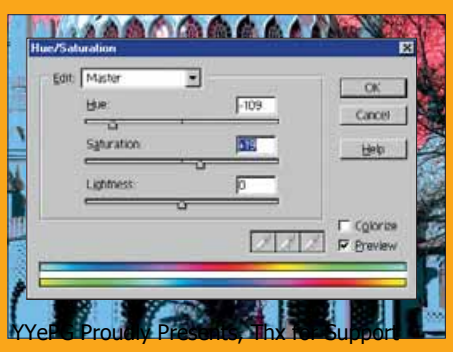
## 1 Posterize

Reduce the numbers of colours in the picture using the Posterize feature from the Adjustments section: **Image > Adjustments > Posterize.** Input the numbers of levels you wish to use for the picture into the Posterize dialogue box. The smaller the number you choose, the fewer colours you'll have in the final picture. In this example we have used four levels.




## 2 Change colours

To make the image colours more vibrant, go to **Image > Adjustments > Hue and Saturation**. You can create many different colour combinations by moving the Hue slider in the Hue/Saturation dialogue. If the new colours are too strong, reduce their vibrancy by dragging down the Saturation slider. But remember, most Pop Art is full of strong primary colours.




## 3 Four up

When you're happy with the finished result, repeat the process three more times, using different colours. Try to keep the colours bold and vivid. You should now have four separate files. Create a new document (**File>New**), that is four times the size of the smaller ones. Then drag each colour image into the new file. Arrange each one into the corners making sure that the colours complement each other.

YYeF's Proudly Presents, Thx for Support

# Layer Blends

## Layer blend mode does exactly what the name suggests – it blends a layer with another layer in a choice of modes

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS & ELEMENTS**
**LEVEL**
**INTERMEDIATE**

**Layer blend modes can be a bit of a complex concept, but let's try to simplify it. Blend modes permit you to mix the colour of a pixel with that of every pixel in a straight line beneath it.**

A single blend mode can be as powerful as a mask, a filter, and a retouching tool combined.

Best of all, it's temporary. As long as one image remains layered in front of another, you can replace one calculation with another as easily as you can change a letter of text in a word processor.

Unlike some Photoshop filters it allows you to view in real-time so you can immediately see the effects of the different modes available (and there are literally hundreds of combinations).

## TOP TIPS!

**GOLDEN RULES**
For realistic image manipulation, the golden rule as always is to make small adjustments with all filters and blend modes, and to keep adding if needed

### 1 Pen *tool*

Open up the image of the balloon and select your **Pen tool**. Using all the skills from the previous pages carefully trace around the subject, zooming in close (**Ctrl +**) to pick up on all the details such as ropes etc.

### 2 Make *selections*

Once you've completed your path, convert it to a selection (**Path palette** drop-down menu **> Make selection**) and then go to **Select > Feather selection** (this will soften the edges). Enter a figure of 0.3. Copy the selection (Ctrl+C).

### 3 Paste *balloon*

Open the second image and paste the balloon selection onto it. It will appear as a new layer. You may want to rename the layer so you can keep track of it. We will now try to create a realistic reflection on the surface of the lake.

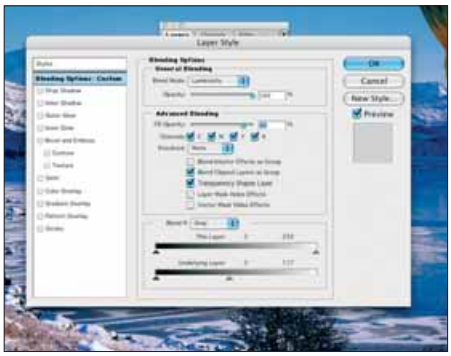
YYePG Proudly Presents, Thx for Support

## 4 **Flip** *layer*

Copy the layer by dragging the layer icon onto the duplicate layer button at the bottom of the palette. Go to **Edit > Transform > Flip vertical** and the layer will be vertically flipped to give the impression of a reflection.

## 5 **Position** *reflection*

Position the 'reflected balloon' where you would expect the natural reflection to be. To complete the effect we'll now add a layer blend mode. Go to the Layers palette sub-menu button and select Blending Options.




## 6 **Layer** *styles*

With the Layer style dialogue box open, click the general blending drop-down menu and select Luminosity. Adjust the Fill Opacity to 85%. The final step is to adjust the Underlying Layer slider to allow the highlights to show through.

YYePG Proudly Presents, Thx for Support

# Disaster Montage

## With God-like power, we show you how to get the best from photorealistic montages

YYePG Proudly Presents, Thx for Support

**Slumping back into the driver's seat of his black cab, Charlie took a long drag on his cigarette. 'These will be the death of me,' he murmured as he blew the smoke out of the window.**

It suddenly became quite dark and Charlie flicked away the cigarette, adjusting his wing mirror. As he glanced at the reflection, he stared at the unexpected image. An enormous tidal wave was crashing through Tower Bridge, sweeping traffic into its inexorable path. It ripped its way along the Embankment and within seconds London would be engulfed...

## SET THE SCENE

It's a scene from a Hollywood blockbuster, with spectacular effects. But did you know that your imaging software can create the same powerful effects (although the images are still ones, of course) as seen in the movies?

Armed with your imagination, you can create amazing montages with your own images that will defy reality and leave your audience breathless...

We will tackle the subjects of seamless blending mainly in Photoshop, but most of the rules apply to other software such as Paintshop Pro.

Like all involved topics, it's best to keep your concept images simple to start with as you learn to master the techniques. The more layers you use, the larger the file size will be and the slower your PC will run. Using layers can be confusing if you don't follow the simple steps and keep them in a named order. It's good housekeeping and essential when using complex stacking.

So, sit back, get out the popcorn and get ready to learn the tips and tricks of successful photorealistic montages. >>

YYePG Proudly Presents, Thx for Support

**SOFTWARE**
**ADOBE PHOTOSHOP 7.0 & CS**
**LEVEL**
**ADVANCED**

## 1 Plan *your image*

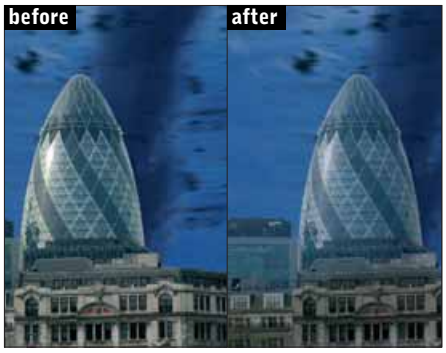
Of all the things you want to remember, it's this: a good plan leads to a great image. Try sketching out rough ideas on paper to help get a better idea if you need to take any extra shots. Go for dynamic angles or unusual viewpoints. Try looking in action comics for inspiration if you need help. Compose the image as you would in a camera.

## 2 Blank *canvas*

Create a new document window, ready to receive your source elements. Make sure that your document is a suitable size for your source images, as you should avoid increasing the size of each source to fit the new document. This would lead to obvious blurring and destroy any sense of photo realism.

## 3 Path *to success*

Open each source image and carefully select the area you want to extract. Using the Pen tool can produce the most accurate results. (See page 68 for more on drawing paths.) Draw around the objects, making sure you select any 'holes' and gaps. It's worth saving the path with the original image for later.




## 4 Make *selections*

With the path now complete, choose **Path > Make selection** from the path palette. Using the move tool, drag the selected image into the open montage window. Repeat with the remaining images until they are all combined into the new document. Save. Some images may look better than others, so don't worry if you feel you need to delete some.

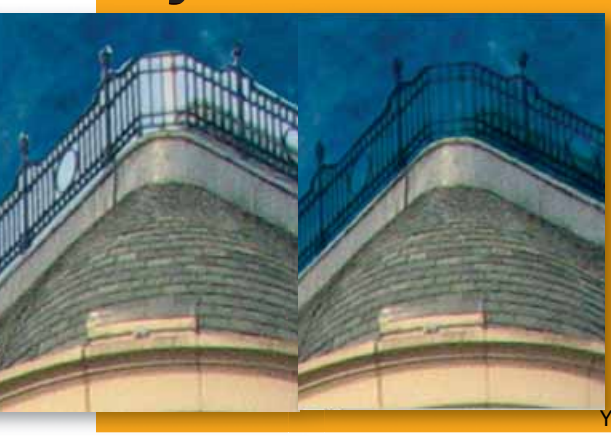
## 5 Name *the layers*

Remember to name each layer properly, as this will make navigating a lot easier later on, when they start to stack up. Begin to move the source images into place, dragging the layers up or down depending on whether they need to be in the front or the back of the montage. Don't be too worried about accuracy at this stage.

## 6 Adjust *curves*

Now you have the basics of the montage in place, it's time to start blending the colours and tones. Most of them will be of varying hues, so use the curves (**Image > Adjustments > Curves**) to adjust the colour casts. In this case, the dominant colour was to be blue. So the blue curve was adjusted to increase the hue.

## Layer *Blend Modes*



Layer blend modes can be a huge time-saver when blending areas together. It may take a little experimentation, but the results can be awesome. In our example, we had a complete set of railings on top of a building that were extremely complicated and detailed – so detailed in fact, that it would be impossible to select them and remove the background. A very quick and easy way round this is to select the railings using the polygon lasoo tool. Select right up against the building so the railings can be cut without taking any of the roof with it. Hit CONTROL, SHIFT, J on the keyboard. This will cut and place the selection on a new layer exactly in the same place. Use the layer blend mode in the layers palette and select MULTIPLY. The railings will appear to be 'cut out' as the background shows through. MULTIPLY mode makes all light pixels transparent and only lets the dark pixels show through.

**OTHER LAYER BLEND MODES**

**SCREEN:** Makes the dark pixels transparent (the opposite of Mutiply)
**OVERLAY:** Is a balance of light and dark transparent pixels
**LIGHTEN:** Brightens parts of the underlying layer that is darker than the top layer
**DARKEN:** Does the opposite of Lighten
**HARD LIGHT:** Increases saturation of both layers
**SOFT LIGHT:** A more subtle version of Hard Light
**COLOUR BURN:** Darkens the the bottom layer by adding deep hue effects

YYePG Proudly Presents, Thx for Support

## 7 Adjust *levels*

Adust the levels to darken or lighten the tone of the images. Choose **Image > Adjustments > Levels**. Start by adjusting the slider in the mid tones first and then adjust the highlights and shadows. In this example, we went for a dark stormy look, so the midtones and highlights were brought down and the shadows left as they were.

## 8 Layer *masks*

The art of photorealism is making objects interact with each other by using layer masks. Choose Layer mask from the layer palette. Using a suitable soft brush, and black as the foreground colour, paint out the unwanted areas. In this example we wanted the wave to appear over the top of the bridge.

## 9 Cover *up*

To help with achieving seamless blends, try pasting a duplicate area over the top. With the lasso tool, draw around small elements that you want to duplicate, and copy and paste them into the image. It's probably best to rotate or flip it if you don't want obvious repetition. Here, the extra part of the wave makes for more realism.

## 10 Final *effect*

With all the elements blended together, add an overall effect to give a feeling of consistency. Here, I have given the taxi headlights some lens flare. The bright lights spill out over the top of all the underlying layers, to help join them into one photorealistic image.

# TOP TIPS!

### LAYER SETS

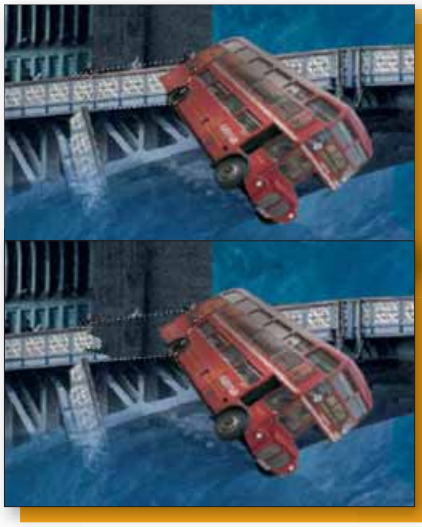
**When using multiple layers in a montage, you can run into having many more layers than you can keep track of. Use Layer Sets to keep them organised.Layer sets make it easy to move, modify, hide, and lock layers as a group.**
**You can even nest layer sets within other layer sets. In order to do this, click the CREATE NEW SET button at the bottom of the layers palette. Next, double click the folder and name it. Then select the layers you want in the set and drag them to the folder. This technique is very useful when dealing with one subject made up of many layers.**

### DEFRINGING

**When cutting out objects, you may notice that the soft edge shows some of the original background area.**
**This is easily removed in Photoshop by using the defringing command. Choose Layer>Matting>Defringe.**
**Choose a pixel radius of about 2 or 3, depending on the resolution. What you will find is the original colour pixels are pushed out to the edge of the object and mixed with the underlying layer.**
**It may not work with all images, so experiment.**

### REALISTIC SHADOWS

**For shadows that look realistic, try selecting (with the lasso) an area you want to become the shadow, that is, part of the floor. Feather the area and press the Control & J keys. This will place a copied area directly above the original. Use the burn tool from the tools palette and select a suitable soft-edged brush. Then, gently burn in the copied area. Burn just a little more than you would think is realistic. Then use the opacity slider to adjust the shadow for a pleasing result.**



## Break *It Up*

Disaster montages are great fun to do, but what can give an element of realism is using recognisable objects and destroying them! In this case the bus has been swept off the side of Tower Bridge. The side of the bridge has fallen into the water, leaving a huge gap. To make this gap, use the pen tool to select around the section of bridge you want to remove. Draw the sides jaggedly, to give a rough edge. Make the path a selection by selecting **Path>Make Selection** in the path palette.
Copy and paste the selection into a new layer, and name the layer. Move the broken side of the bridge down into the water.
Now, go back to the path and make this a selection again. Make sure the original bridge layer is the active layer. With the Clone tool, option-click an area above the railing. Clone this into your selection area. This will duplicate the wall all the way down and also give you the same rough edges as the broken rail in the water.

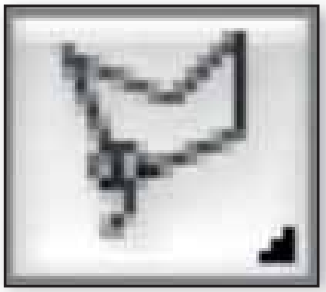
YYePG Proudly Presents, Thx for Support

# 25 Top Tips

Twenty five advanced tips and secrets: you'll wonder how you did without them...

## STRAIGHT LINES WITH THE LASSO

The Lasso's great for freeform selections, but what if you need to draw a perfectly straight segment? It's easy – just hold the Alt key, releasing the mouse button, and continue to draw your selection. The cursor changes to the Polygonal Lasso tool. When you've finished, click-and-hold the mouse button to create a point, release the Alt key, and you'll be back to the regular Lasso tool.



## RE-RUN THAT FILTER FAST

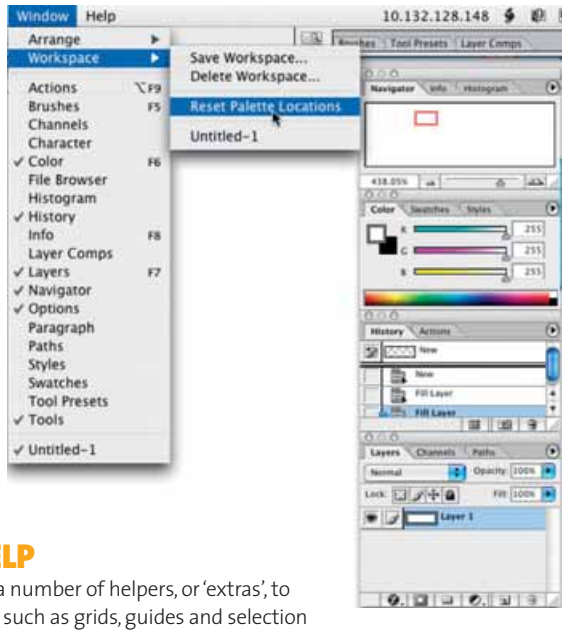
Once you've applied a filter, Photoshop kindly puts that filter at the top of the list in the Filter menu for you to use again. But to access it even more quickly, just click Ctrl+F. If you want to use the same filter but with different settings, press Ctrl+Alt+F which brings up the dialogue box with the last settings you used.

## QUICK COLOUR CORRECTIONS

If you're new to correcting images, try using Auto Levels (Image>Adjustments >Auto Levels) which should give your image better contrast and more balanced colour.
If it still doesn't look right, go to Image> Adjustments> Variations to see your original image and a number of colour-modified versions of it. All you have to do is choose the thumbnail you think looks best.

## RESET PALETTES

If you've been moving your palettes all over and they've got into a mess, send them back to their default positions. Just go to **Window> Workspace>Reset Palette Locations**.




## GET EXTRA HELP

Within Photoshop are a number of helpers, or 'extras', to let you work efficiently, such as grids, guides and selection edges. You can toggle these helpers on and off by choosing Extras from the View menu or by using the keyboard shortcut Ctrl+H. You even have control over which ones you see under **View>Show>Show Extras Options** and checking which ones you choose.

YYePG Proudly Presents, Thx for Support

## CHANNEL MIXER

Convert your pictures to b/w using the Channel mixer (Image > Adjustments > Channel Mixer). The default setting is +100 Red. This setting produces a similar effect as taking a picture using a Red filter with film. The effect will be a dramatic sky on a landscape, but for a portrait it lightens the lips too much.

## MAKE A GIANT PALETTE

You can dock palettes one on top of another to create one giant palette. Just drag the name tab of one palette to the bottom edge of another and slowly drag it upwards. A thin black double line will then appear at the bottom of the top palette to let you know it's ready to dock. Release the mouse and that's it! Now both of the palettes will move together. It's a handy technique for grouping similar tools.

## GO BACK TO THE BEGINNING

If you've been messing with a tool and now something's not right with it, you can quickly get back to its default settings by choosing the tool from the Toolbox, the right-clicking on the tool's icon in the Options Bar on the far left. Choose Reset Tool in the menu that pops up. While you're there you can choose Reset All Tools to take them all back to their defaults.

## DESELECTED AND DIDN'T SAVE?

You've created a selection, changed your mind and deselected it and moved on, but then you wish you had it back. Don't worry. As long as you haven't made another selection since the one you want to get back, Photoshop remembers your last selection and let you get it back by going to **Select>Reselect**.

If you create a selection you know you're going to want to go back to, while it's still active go to Select> Save Selection. You can reload it any time by going to Select>Load Selection. Your selection will be called Alpha 1 by default.

## SEPIA

Try applying a tint to a monochrome picture – sepia is always a popular choice. Use the Colour Balance (Ctrl + B) and enter the values +50 Red and –20 Yellow. A more sophisticated method would be to use Duotones. This means converting your image to Greyscale and then converting to Duotone. (Make sure that the image tonality is as you want it before discarding the colour information)

## SAVE SETTINGS

When using the Channel Mixer you can save your setting for re-use on other pictures. Create two Hue/Saturation Adjustment layers. If you click to OK button before you have saved the settings, then press down Ctrl + Alt while selecting the Channel Mixer from the menu. This will open up the Channel Mixer palette with the last-used settings – now you can save the settings.

## KEEP THE COLOUR

Although you want to make a b/w image, don't throw away the colour information in a picture. You can make good use of this to adjust how each of the colours is interpreted as a grey value. The most efficient method is to work with an adjustment layer.

## CHANGE VALUES QUICKER

To save time when you're entering values into a field, highlight the value and the use your keyboard. The up/down keys will raise/lower the values and, in combination with the Shift key, they'll change the value in larger increments.

## LIGHTNING-FAST FEATHER

If you're using the Lasso tool and want to add a feather to soften the edges of the selection, just hit Enter and the Feather field in the Options Bar will highlight. All you have to do is enter the value for how much feathering you want. Don't forget to set the value back to 0 when you're done using the same shortcut.

## THE SECRET FILL SHORTCUT

There are all sorts of keyboard shortcuts for filling selections etc, but if you look under the Edit menu, next to the Fill command, there doesn't seem to be a shortcut for bringing up the Fill dialogue box. But you can now be really sneaky and simply use Shift+Backspace to do it.

YYePG Proudly Presents, Thx for Support

## REDUCE THE SIZE

Once you have applied all your adjustments and have the perfect tones then you can discard all the colour information by converting the image to Greyscale. A 14.4MB (5-megapixel) colour image will be reduced by two thirds to 4.81MB.

## CALIBRATE YOUR MONITOR

There's little point in spending hours getting the colour and contrast of your images perfect on your monitor if your screen is not calibrated to show you just what you'll get on your printer. Spend some time ensuring that what you see on screen is as close as possible to what you'll get on the print.

## WORK ON A COPY

Never work on original image files. Keep these somewhere safe and work on a copy. That way if you mess up, or later change your mind about whatever crop or effect you applied, you can go back to the original and start again.

If you keep all your precious digital images on your computer then you should at least back them up onto a CD or Zip disk from time to time. Otherwise, if your PC should suffer a catastrophic hard disk failure (it does happen) you stand to permanently lose your precious memories.

## RIGHT FILE FORMAT

For maximum quality, save images as TIFF files or, if your finished image is comprised of layers, a format like psd (photoshop) or psp (paintshop pro) which preserves the layers rather than flattening the image. Don't save as jpegs, except to make copies for sharing, as these reduce image quality.

## DON'T OVER ENLARGE

With Photoshop and other applications you can rescale images to whatever size you like, but it's best not to exceed the maximum dimensions of the image file and the pixels per inch density that you want to output to (eg, typicallly 300ppi for inkjet printing). Doing so will result in a loss of image quality.

## CLEAR POINT OF VIEW

Sometimes the only way to really see how your editing is going is to view the photo as far as from distractions as possible. To hide all your palettes and tools quickly, use the keystrokes Shift- Tab and then Tab to cycle through the screen modes.

## LEARN THE SHORT CUTS

Speed up your desktop processing by learning the keyboard shortcuts to the most frequently used tools and commands. Most functions have a shortcut, and learning them can save you a significant amount of time in the long run, as you'll be able to create your images with much greater speed.

## SAVE REGULARLY

You're just finishing a complex photomontage that you've been working on for hours, when suddenly your PC crashes. Or your partner accidentally pulls the wrong plug out of the socket. Whatever the reason, you've just lost your image and wasted all those hours. It always seems to be the case, that whenever you have got complacent about saving, something goes horribly wrong and you find you've lost your work. To avoid this situation, remember to make sure that you save your work regularly. That way, if the worst does happen, you don't have to go back very far to redo what you've lost.

## MOVE LAYERS WITH KEY STROKES

Many pros use keyboard shortcuts to help them speed up their daily work. This shortcut is no excpetion – to move an active layer within a stack up one position, hold down the Ctrl/Cmd key and click the ] key (right square bracket). To move it down one position, hit the Ctrl/Cmd key and click the [ key (left square bracket).

## STRAIGHT STROKES

Draw straight strokes with the airbrush, pencil and even the Eraser tool by holding down the shift key and click the mouse once to mark the beginning of the line and then click a second time to mark the end of the line. Successive clicking will continue to draw straight lines from the position of the previous mouse click to the new one.

YYePG Proudly Presents, Thx for Support

# Get the FREE Web User email Newsletter

NEW LOOK!

## in your Inbox every fortnight!

Subscribe today to get the latest news from the internet, product reviews, games, special offers and exclusive competitions directly to your Inbox! You'll also find out what's in the latest issue of *Web User*!

Visit www.webuser.co.uk/newsletter

# LISTEN TO THE FREE WEB USER PODCAST!

NEW!

Get all the latest from the *Web User* team with our brand-new fortnightly podcast!

Visit www.webuser.co.uk/podcast to download our podcast for interviews, discussions, website reviews, gadget tests and more every fortnight.

It's free and easy to download to your PC or portable MP3 player, so give it a try.

Visit www.webuser.co.uk/podcast

YYePG Proudly Presents, Thx for Support

Subscribe to Web User now. Call 0845 676 7778

# Expert opinion...

**Amateur Photographer**
8 October 2005
"Fujifilm may well have delivered the first legitimate 'all-in-one' design capable of competing with the current rash of entry-level digital SLRs."

**TrustedReviews.com**
November 2005
"I'm planning to sell my SLR and get one of these instead....Fujifilm has produced what is unquestionably the best fixed-lens camera currently available."

**Digital Photographer**
Issue 39 (December 2005)
"The highly acclaimed sensor is built on Fujifilm's reputation for photographic film. Images are detailed, and colour rendition is very realistic. The lack of noise is a strong point."

**British Journal of Photography**
9 November 2005
"The camera is obviously the product of much thought... most of all, on the basis of my review, it produces excellent prints. Definitely recommended." (review by H.J.P Arnold)

**Digital Camera Magazine**
December 2005
"If you want a competent all-in-one camera that has the features and build quality to last you for years, choose the S9500."

**Digital Camera Shopper**
December 2005
"Using the S9500 Zoom to take photos is a positive joy... there's definitely a film-like quality to the S9500's images that takes you back to the days of 35mm."

**What Digital Camera?**
December 2005
"The built-in lens is a sharp performer with a 35mm equivalent focal length of 28-300mm. There's a lot to like about the Fujifilm FinePix S9500, not least the overall feel of the camera. ... the lack of noise in images is stunning."

# ...on an expert camera

Amateur Photographer Awards
Bridge Camera of the Year 2006

FinePix S9500 zoom

Visit this camera at:
**www.s9500.co.uk**

YYePG Proudly Presents, Thx for Support

FUJIFILM
...love the picture